

Aaron F Diefendorf

List of Publications by Year in descending order

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43
papers

2,390
citations

394421

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276875

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docs citations

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citing authors

#	ARTICLE	IF	CITATIONS
1	Global patterns in leaf $\delta^{13}\text{C}$ discrimination and implications for studies of past and future climate. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 5738-5743.	7.1	690
2	Extracting the most from terrestrial plant-derived n-alkyl lipids and their carbon isotopes from the sedimentary record: A review. <i>Organic Geochemistry</i> , 2017, 103, 1-21.	1.8	280
3	Production of n-alkyl lipids in living plants and implications for the geologic past. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 7472-7485.	3.9	278
4	Slow release of fossil carbon during the Palaeocene–Eocene Thermal Maximum. <i>Nature Geoscience</i> , 2011, 4, 481-485.	12.9	214
5	Leaf wax composition and carbon isotopes vary among major conifer groups. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 170, 145-156.	3.9	101
6	Long-term stabilization of deep soil carbon by fire and burial during early Holocene climate change. <i>Nature Geoscience</i> , 2014, 7, 428-432.	12.9	81
7	Hydrogen isotopes of n-alkanes and n-alkanoic acids as tracers of precipitation in a temperate forest and implications for paleorecords. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 206, 166-183.	3.9	72
8	Paleogene plants fractionated carbon isotopes similar to modern plants. <i>Earth and Planetary Science Letters</i> , 2015, 429, 33-44.	4.4	55
9	Evidence for high-frequency late Glacial to mid-Holocene (16,800 to 5500 cal yr B.P.) climate variability from oxygen isotope values of Lough Inchiquin, Ireland. <i>Quaternary Research</i> , 2006, 65, 78-86.	1.7	47
10	Distribution and carbon isotope patterns of diterpenoids and triterpenoids in modern temperate C3 trees and their geochemical significance. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 85, 342-356.	3.9	47
11	Export of submicron particulate organic matter to mesopelagic depth in an oligotrophic gyre. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 12565-12570.	7.1	47
12	Carbon isotopes of marl and lake sediment organic matter reflect terrestrial landscape change during the late Glacial and early Holocene (16,800 to 5,540 cal yr B.P.): a multiproxy study of lacustrine sediments at Lough Inchiquin, western Ireland. <i>Journal of Paleolimnology</i> , 2008, 39, 101-115.	1.6	44
13	A comparison of terpenoid and leaf fossil vegetation proxies in Paleocene and Eocene Bighorn Basin sediments. <i>Organic Geochemistry</i> , 2014, 71, 30-42.	1.8	41
14	Sedimentary n-alkanes and n-alkanoic acids in a temperate bog are biased toward woody plants. <i>Organic Geochemistry</i> , 2019, 128, 94-107.	1.8	40
15	Survey of stable isotope values in Irish surface waters. <i>Journal of Paleolimnology</i> , 2005, 34, 257-269.	1.6	35
16	Effect of thermal maturation on plant-derived terpenoids and leaf wax n-alkyl components. <i>Organic Geochemistry</i> , 2015, 89-90, 61-70.	1.8	32
17	Origin and sedimentary fate of plant-derived terpenoids in a small river catchment and implications for terpenoids as quantitative paleovegetation proxies. <i>Organic Geochemistry</i> , 2015, 82, 22-32.	1.8	25
18	Appraising the roles of nutrient availability, global change, and functional traits during the angiosperm rise to dominance. <i>Ecology Letters</i> , 2010, 13, E1-6.	6.4	23

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19	Seasonal and canopy height variation in n-alkanes and their carbon isotopes in a temperate forest. <i>Organic Geochemistry</i> , 2018, 116, 23-34.	1.8	22
20	A phylogenetic analysis of conifer diterpenoids and their carbon isotopes for chemotaxonomic applications. <i>Organic Geochemistry</i> , 2019, 127, 50-58.	1.8	21
21	On geologic timescales, plant carbon isotope fractionation responds to precipitation similarly to modern plants and has a small negative correlation with pCO ₂ . <i>Geochimica Et Cosmochimica Acta</i> , 2020, 270, 264-281.	3.9	20
22	Contrasting sensitivity of lake sediment n-alkanoic acids and n-alkanes to basin-scale vegetation and regional-scale precipitation $\delta^2\text{H}$ in the Adirondack Mountains, NY (USA). <i>Geochimica Et Cosmochimica Acta</i> , 2020, 268, 22-41.	3.9	19
23	Clarifying the influence of water availability and plant types on carbon isotope discrimination by C3 plants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, E59-60; author reply E61.	7.1	17
24	Population differences in host plant preference and the importance of yeast and plant substrate to volatile composition. <i>Ecology and Evolution</i> , 2017, 7, 3815-3825.	1.9	17
25	Conifers are a major source of sedimentary leaf wax n-alkanes when dominant in the landscape: Case studies from the Paleogene. <i>Organic Geochemistry</i> , 2020, 147, 104069.	1.8	16
26	Dissolved organic matter dynamics in storm water runoff in a dryland urban region. <i>Journal of Arid Environments</i> , 2019, 165, 55-63.	2.4	15
27	Identifying the "savanna" signature in lacustrine sediments in northern Australia. <i>Quaternary Science Reviews</i> , 2019, 203, 233-247.	3.0	14
28	Stable source of Holocene spring precipitation recorded in leaf wax hydrogen-isotope ratios from two New York lakes. <i>Quaternary Science Reviews</i> , 2020, 240, 106357.	3.0	11
29	Climate response of the Florida Peninsula to Heinrich events in the North Atlantic. <i>Quaternary Science Reviews</i> , 2018, 194, 1-11.	3.0	10
30	Last interglacial (MIS 5e) and Holocene paleohydrology and paleovegetation of midcontinental North America from Gulf of Mexico sediments. <i>Quaternary Science Reviews</i> , 2020, 227, 106066.	3.0	9
31	Plant wax and carbon isotope response to heat and drought in the conifer <i>Juniperus monosperma</i> . <i>Organic Geochemistry</i> , 2021, 153, 104197.	1.8	9
32	Centennial-scale age offsets of plant wax n-alkanes in Adirondack lake sediments. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 300, 119-136.	3.9	8
33	Plant wax integration and transport from the Mississippi River Basin to the Gulf of Mexico inferred from GIS-enabled isoscapes and mixing models. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 257, 131-149.	3.9	7
34	Synchronous Marine and Terrestrial Carbon Cycle Perturbation in the High Arctic During the PETM. <i>Paleoceanography and Paleoclimatology</i> , 2021, 36, e2020PA003942.	2.9	7
35	Hydrogen isotopic composition ($\delta^2\text{H}$) of diatom-derived C ₂₀ highly branched isoprenoids from lake sediments tracks lake water $\delta^2\text{H}$. <i>Organic Geochemistry</i> , 2020, 150, 104122.	1.8	5
36	Spatial variability in foliar carbon and nitrogen isotope values on Tenerife reflects both climate and soils: Establishing a framework for future work. <i>Acta Oecologica</i> , 2020, 109, 103647.	1.1	3

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37	Effects of drying methods on plant lipid compounds and bulk isotopic compositions. Rapid Communications in Mass Spectrometry, 2020, 34, e8900.	1.5	2
38	Hydrogen and carbon isotope fractionation in modern plant wax n-alkanes from the Falkland Islands. Organic Geochemistry, 2022, 166, 104404.	1.8	2
39	Local differences in paleohydrology have stronger influence on plant biomarkers than regional climate change across two Paleogene Laramide Basins, Wyoming, USA. Palaeogeography, Palaeoclimatology, Palaeoecology, 2022, 596, 110977.	2.3	2
40	A high-resolution record from Svalbard of carbon release during the Paleocene-Eocene thermal maximum. Journal of Earth Science (Wuhan, China), 2010, 21, 190-190.	3.2	1
41	Stable Isotope Tracers of Cretaceous Arctic Paleoprecipitation. Geosciences (Switzerland), 2022, 12, 143.	2.2	1
42	Can Stable Isotopes in Fossil Marine Arthropods Serve as Paleocological Indicators?. The Paleontological Society Special Publications, 2014, 13, 149-150.	0.0	0
43	DYNAMICS OF DEPOSITION AND FOSSIL PRESERVATION AT THE EARLY EOCENE OKANAGAN HIGHLANDS OF BRITISH COLUMBIA, CANADA: INSIGHTS FROM ORGANIC GEOCHEMISTRY. Palaios, 2022, 37, 185-200.	1.3	0