# Katherine H Freeman

List of Publications by Year
in descending order



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|---|---|---|---|
| 163 papers | 15,400 citations | 20815 60 h-index | 17588 121 g-index |
| 169 all docs | 169 docs citations | 169 times ranked | 11398 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Marked Decline in Atmospheric Carbon Dioxide Concentrations During the Paleogene. Science, 2005, 309, 600-603. | 12.6 | 774 |
| 2 | 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 |
| 3 | Compound-specific isotopic analyses: A novel tool for reconstruction of ancient biogeochemical processes. Organic Geochemistry, 1990, 16, 1115-1128. | 1.8 | 694 |
| 4 | Global patterns in leaf <sup>13</sup> C discrimination and implications for studies of past and future climate. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 5738-5743. | 7.1 | 690 |
| 5 | Evidence from carbon isotope measurements for diverse origins of sedimentary hydrocarbons. Nature, 1990, 343, 254-256. | 27.8 | 574 |
| 6 | Fractionation of carbon isotopes by phytoplankton and estimates of ancient CO<sub>2</sub> levels. Global Biogeochemical Cycles, 1992, 6, 185-198. | 4.9 | 573 |
| 7 | Transient Floral Change and Rapid Global Warming at the Paleocene-Eocene Boundary. Science, 2005, 310, 993-996. | 12.6 | 486 |
| 8 | Late Miocene Atmospheric CO2 Concentrations and the Expansion of C4 Grasses. Science, 1999, 285, 876-879. | 12.6 | 466 |
| 9 | Miocene evolution of atmospheric carbon dioxide. Paleoceanography, 1999, 14, 273-292. | 3.0 | 407 |
| 10 | Climate Change as the Dominant Control on Glacial-Interglacial Variations in C3 and C4 Plant Abundance. Science, 2001, 293, 1647-1651. | 12.6 | 401 |
| 11 | Consistent fractionation of13C in nature and in the laboratory: Growth-rate effects in some haptophyte algae. Global Biogeochemical Cycles, 1997, 11, 279-292. | 4.9 | 363 |
| 12 | Influence of physiology and climate on ÎD of leaf wax n-alkanes from C3 and C4 grasses. Geochimica Et Cosmochimica Acta, 2006, 70, 1172-1187. | 3.9 | 313 |
| 13 | New insights into Archean sulfur cycle from mass-independent sulfur isotope records from the Hamersley Basin, Australia. Earth and Planetary Science Letters, 2003, 213, 15-30. | 4.4 | 311 |
| 14 | Production of n-alkyl lipids in living plants and implications for the geologic past. Geochimica Et Cosmochimica Acta, 2011, 75, 7472-7485. | 3.9 | 278 |
| 15 | Molecular and isotopic records of C4 grassland expansion in the late miocene. Geochimica Et Cosmochimica Acta, 2001, 65, 1439-1454. | 3.9 | 224 |
| 16 | Paleoaltimetry of the Tibetan Plateau from D/H ratios of lipid biomarkers. Earth and Planetary Science Letters, 2009, 287, 64-76. | 4.4 | 221 |
| 17 | Late Archean rise of aerobic microbial ecosystems. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 15759-15764. | 7.1 | 219 |
| 18 | Slow release of fossil carbon during the Palaeoceneâ€“Eocene Thermal Maximum. Nature Geoscience, 2011, 4, 481-485. | 12.9 | 214 |

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|---|---|---|---|
| 19 | Water column anoxia, enhanced productivity and concomitant changes in Î´13C and Î´34S across the Frasnianâ€“Famennian boundary (Kowala â€“ Holy Cross Mountains/Poland). Chemical Geology, 2001, 175, 109-131. | 3.3 | 195 |
| 20 | Microbial ecology of the stratified water column of the Black Sea as revealed by a comprehensive biomarker study. Organic Geochemistry, 2007, 38, 2070-2097. | 1.8 | 184 |
| 21 | Magnitude of the carbon isotope excursion at the Paleoceneâ€“Eocene thermal maximum: The role of plant community change. Earth and Planetary Science Letters, 2007, 262, 50-65. | 4.4 | 178 |
| 22 | Community genomic analysis of an extremely acidophilic sulfur-oxidizing biofilm. ISME Journal, 2012, 6, 158-170. | 9.8 | 171 |
| 23 | Carbon isotope geochemistry of the Frasnianâ€“Famennian transition. Palaeogeography, Palaeoclimatology, Palaeoecology, 2002, 181, 91-109. | 2.3 | 169 |
| 24 | Nonmarine Crenarchaeol in Nevada Hot Springs. Applied and Environmental Microbiology, 2004, 70, 5229-5237. | 3.1 | 168 |
| 25 | Performance and Optimization of a Combustion Interface for Isotope Ratio Monitoring Gas Chromatography/Mass Spectrometry. Analytical Chemistry, 1995, 67, 2461-2473. | 6.5 | 165 |
| 26 | Acquisition and processing of data for isotope-ratio-monitoring mass spectrometry. Organic Geochemistry, 1994, 21, 561-571. | 1.8 | 164 |
| 27 | Predictive isotopic biogeochemistry: Hydrocarbons from anoxic marine basins. Organic Geochemistry, 1994, 21, 629-644. | 1.8 | 162 |
| 28 | Effects of aridity and vegetation on plant-wax ÎD in modern lake sediments. Geochimica Et Cosmochimica Acta, 2010, 74, 5785-5797. | 3.9 | 158 |
| 29 | Isotopic compositions of lipid biomarker compounds in estuarine plants and surface sediments. Limnology and Oceanography, 1997, 42, 1570-1583. | 3.1 | 152 |
| 30 | Lipids of marine Archaea: Patterns and provenance in the water-column and sediments. Geochimica Et Cosmochimica Acta, 2007, 71, 3272-3291. | 3.9 | 149 |
| 31 | The character and origin of lacustrine source rocks in the Lower Cretaceous synrift section, Congo Basin, west Africa. AAPG Bulletin, 2004, 88, 1163-1184. | 1.5 | 138 |
| 32 | Ecosystem variability and early human habitats in eastern Africa. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 1167-1174. | 7.1 | 137 |
| 33 | Aggregation controls the stability of lignin and lipids in clay-sized particulate and mineral associated organic matter. Biogeochemistry, 2017, 132, 307-324. | 3.5 | 129 |
| 34 | Hydrogen isotope ratios of leaf wax n-alkanes in grasses are insensitive to transpiration. Geochimica Et Cosmochimica Acta, 2011, 75, 541-554. | 3.9 | 128 |
| 35 | Methylhopane biomarker hydrocarbons in Hamersley Province sediments provide evidence for Neoarchean aerobiosis. Earth and Planetary Science Letters, 2008, 273, 323-331. | 4.4 | 126 |
| 36 | Viable cyanobacteria in the deep continental subsurface. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 10702-10707. | 7.1 | 124 |

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| 37 | Organic haze in Earth's early atmosphere: Source of low-13C Late Archean kerogens?. Geology, 2001, 29, 1003. | 4.4 | 119 |
| 38 | Methyl sulfides as intermediates in the anaerobic oxidation of methane. Environmental Microbiology, 2008, 10, 162-173. | 3.8 | 118 |
| 39 | Variations in the distributions and isotopic composition of alkenones in Black Sea particles and sediments. Organic Geochemistry, 1992, 19, 277-285. | 1.8 | 110 |
| 40 | Controls on carbon isotope fractionation by diatoms in the Peru upwelling region. Geochimica Et Cosmochimica Acta, 1997, 61, 4983-4991. | 3.9 | 109 |
| 41 | Estimated Minimal Divergence Times of the Major Bacterial and Archaeal Phyla. Geomicrobiology Journal, 2003, 20, 1-14. | 2.0 | 104 |
| 42 | Soil organic carbon stability in forests: Distinct effects of tree species identity and traits. Global Change Biology, 2019, 25, 1529-1546. | 9.5 | 104 |
| 43 | The first day of the Cenozoic. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 19342-19351. | 7.1 | 100 |
| 44 | Late Middle Ordovician environmental change and extinction: Harbinger of the Late Ordovician or continuation of Cambrian patterns?. Geology, 1997, 25, 911. | 4.4 | 95 |
| 45 | Water, plants, and early human habitats in eastern Africa. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 1175-1180. | 7.1 | 94 |
| 46 | Evidence for a diachronous Late Permian marine crisis from the Canadian Arctic region. Bulletin of the Geological Society of America, 2012, 124, 1424-1448. | 3.3 | 92 |
| 47 | Iron-stimulated changes in13C fractionation and export by equatorial Pacific phytoplankton: Toward a paleogrowth rate proxy. Paleoceanography, 1999, 14, 589-595. | 3.0 | 89 |
| 48 | Trace methane oxidation studied in several Euryarchaeota under diverse conditions. Archaea, 2005, 1, 303-309. | 2.3 | 89 |
| 49 | The effect of aromatization on the isotopic compositions of hydrocarbons during early diagenesis. Organic Geochemistry, 1994, 21, 1037-1049. | 1.8 | 85 |
| 50 | Measurement of <sup>13</sup>C and <sup>15</sup>N Isotopic Composition on Nanomolar Quantities of C and N. Analytical Chemistry, 2009, 81, 755-763. | 6.5 | 84 |
| 51 | Dietary options and behavior suggested by plant biomarker evidence in an early human habitat. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 2874-2879. | 7.1 | 76 |
| 52 | Different response of ÎD values of n-alkanes, isoprenoids, and kerogen during thermal maturation. Geochimica Et Cosmochimica Acta, 2006, 70, 2063-2072. | 3.9 | 75 |
| 53 | Iron and carbon isotope evidence for ecosystem and environmental diversity in the â¹¼2.7 to 2.5Ga Hamersley Province, Western Australia. Earth and Planetary Science Letters, 2010, 292, 170-180. | 4.4 | 72 |
| 54 | Multiproxy paleoaltimetry of the Late Oligocene-Pliocene Oiyug Basin, southern Tibet. Numerische Mathematik, 2016, 316, 401-436. | 1.4 | 70 |

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| 55 | An isotopic biogeochemical assessment of shifts in organic matter input to Holocene sediments from Mud Lake, Florida. Organic Geochemistry, 2001, 32, 1153-1167. | 1.8 | 69 |
| 56 | Molecular characterization of core lipids from halophilic archaea grown under different salinity conditions. Organic Geochemistry, 2012, 48, 1-8. | 1.8 | 68 |
| 57 | Molecular indicators of redox and marine photoautotroph composition in the late Middle Ordovician of Iowa, U.S.A.. Organic Geochemistry, 1998, 29, 1649-1662. | 1.8 | 66 |
| 58 | Carbon isotopic composition of organic acids in oil field waters, San Joaquin Basin, California, USA. Geochimica Et Cosmochimica Acta, 2001, 65, 1301-1310. | 3.9 | 66 |
| 59 | Carbon Isotope Analyses of Semivolatile Organic Compounds in Aqueous Media Using Solid-Phase Microextraction and Isotope Ratio Monitoring GC/MS. Analytical Chemistry, 1997, 69, 944-950. | 6.5 | 65 |
| 60 | Gas chromatographyâ€“pyrolysisâ€“isotope ratio mass spectrometry: a new method for investigating intramolecular isotopic variation in low molecular weight organic acids. Organic Geochemistry, 2002, 33, 161-168. | 1.8 | 65 |
| 61 | A photoautotrophic source for lycopane in marine water columns. Geochimica Et Cosmochimica Acta, 1993, 57, 159-165. | 3.9 | 62 |
| 62 | Î´13C of low-molecular-weight organic acids generated by the hydrous pyrolysis of oil-prone source rocks. Geochimica Et Cosmochimica Acta, 2002, 66, 2755-2769. | 3.9 | 62 |
| 63 | Organic-matter source variation and the expression of a late Middle Ordovician carbon isotope excursion. Geology, 1999, 27, 1015. | 4.4 | 61 |
| 64 | Î´13C analyses of individual lignin phenols in Quaternary lake sediments: A novel proxy for deciphering past terrestrial vegetation changes. Geology, 1999, 27, 471. | 4.4 | 60 |
| 65 | Grassland fire ecology has roots in the late Miocene. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 12130-12135. | 7.1 | 60 |
| 66 | Isotopic characteristics of canopies in simulated leaf assemblages. Geochimica Et Cosmochimica Acta, 2014, 144, 82-95. | 3.9 | 57 |
| 67 | Biogeochemical controls on reaction of sedimentary organic matter and aqueous sulfides in holocene sediments of Mud Lake, Florida. Geochimica Et Cosmochimica Acta, 2002, 66, 937-954. | 3.9 | 56 |
| 68 | Paleogene plants fractionated carbon isotopes similar to modern plants. Earth and Planetary Science Letters, 2015, 429, 33-44. | 4.4 | 55 |
| 69 | Palaeoceneâ€“Eocene Thermal Maximum prolonged by fossil carbon oxidation. Nature Geoscience, 2019, 12, 54-60. | 12.9 | 55 |
| 70 | Fire distinguishers: Refined interpretations of polycyclic aromatic hydrocarbons for paleo-applications. Geochimica Et Cosmochimica Acta, 2020, 289, 93-113. | 3.9 | 55 |
| 71 | The biogeochemical controls of N2O production and emission in landfill cover soils: the role of methanotrophs in the nitrogen cycle. Environmental Microbiology, 2000, 2, 298-309. | 3.8 | 54 |
| 72 | Black Sea nitrogen cycling and the preservation of phytoplankton Î´<sup>15</sup>N signals during the Holocene. Global Biogeochemical Cycles, 2012, 26, . | 4.9 | 53 |

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| 73 | Differentiating temperate tree species and their organs using lipid biomarkers in leaves, roots and soil. Organic Geochemistry, 2012, 52, 130-141. | 1.8 | 53 |
| 74 | Methyl Sulfide Production by a Novel Carbon Monoxide Metabolism in Methanosarcina acetivorans. Applied and Environmental Microbiology, 2008, 74, 540-542. | 3.1 | 52 |
| 75 | An interlaboratory study of TEX<sub>86</sub> and BIT analysis using highâ€performance liquid chromatographyâ€“mass spectrometry. Geochemistry, Geophysics, Geosystems, 2009, 10, . | 2.5 | 52 |
| 76 | Carotenoid biomarkers as an imperfect reflection of the anoxygenic phototrophic community in meromictic Fayetteville Green Lake. Geobiology, 2011, 9, 321-329. | 2.4 | 52 |
| 77 | Variations in Miocene phytoplankton growth rates in the southwest Atlantic: Evidence for changes in ocean circulation. Paleoceanography, 2000, 15, 486-496. | 3.0 | 49 |
| 78 | Isotopic Biogeochemistry of Marine Organic Carbon. Reviews in Mineralogy and Geochemistry, 2001, 43, 579-605. | 4.8 | 49 |
| 79 | Controls on the carbon-isotope compositions of compounds in Peru surface waters. Organic Geochemistry, 1999, 30, 319-340. | 1.8 | 48 |
| 80 | Comparison of water column [CO2aq] with sedimentary alkenone-based estimates: A test of the alkenone-CO2proxy. Paleoceanography, 2002, 17, 21-1-21-12. | 3.0 | 48 |
| 81 | Reconstructing Late Ordovician carbon cycle variations. Geochimica Et Cosmochimica Acta, 2013, 105, 433-454. | 3.9 | 48 |
| 82 | Distribution and carbon isotope patterns of diterpenoids and triterpenoids in modern temperate C3 trees and their geochemical significance. Geochimica Et Cosmochimica Acta, 2012, 85, 342-356. | 3.9 | 47 |
| 83 | Export of submicron particulate organic matter to mesopelagic depth in an oligotrophic gyre. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 12565-12570. | 7.1 | 47 |
| 84 | Carbon cycle perturbation expressed in terrestrial Permianâ€“Triassic boundary sections in South China. Global and Planetary Change, 2017, 148, 272-285. | 3.5 | 46 |
| 85 | Tree-ring Î´ <sup>13</sup> C tracks flux tower ecosystem productivity estimates in a NE temperate forest. Environmental Research Letters, 2014, 9, 074011. | 5.2 | 44 |
| 86 | Alkenones as paleoceanographic proxies. Geochemistry, Geophysics, Geosystems, 2000, 1, n/a-n/a. | 2.5 | 41 |
| 87 | A comparison of terpenoid and leaf fossil vegetation proxies in Paleocene and Eocene Bighorn Basin sediments. Organic Geochemistry, 2014, 71, 30-42. | 1.8 | 41 |
| 88 | Microbial life in the nascent Chicxulub crater. Geology, 2020, 48, 328-332. | 4.4 | 40 |
| 89 | Climate, ecology, and the spread of herding in eastern Africa. Quaternary Science Reviews, 2019, 204, 119-132. | 3.0 | 39 |
| 90 | Products of trace methane oxidation during nonmethyltrophic growth byMethanosarcina. Journal of Geophysical Research, 2007, 112, . | 3.3 | 36 |

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| 91 | Distortion of carbon isotope excursion in bulk soil organic matter during the Paleocene-Eocene thermal maximum. Bulletin of the Geological Society of America, 2016, 128, 1352-1366. | 3.3 | 36 |
| 92 | Fatty acid specific Î´13C values reveal earliest Mediterranean cheese production 7,200 years ago. PLoS ONE, 2018, 13, e0202807. | 2.5 | 36 |
| 93 | Organic matter from the Chicxulub crater exacerbated the Kâ€“Pg impact winter. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 25327-25334. | 7.1 | 35 |
| 94 | Fire and ecosystem change in the Arctic across the Paleoceneâ€“Eocene Thermal Maximum. Earth and Planetary Science Letters, 2017, 467, 149-156. | 4.4 | 34 |
| 95 | Sources of alkylbenzenes in Lower Cretaceous lacustrine source rocks, West African rift basins. Organic Geochemistry, 2004, 35, 33-45. | 1.8 | 32 |
| 96 | Isotope analyses of molecular and total organic carbon from miocene sediments. Geochimica Et Cosmochimica Acta, 2000, 64, 37-49. | 3.9 | 31 |
| 97 | Sub-Milankovitch paleoclimatic and paleoenvironmental variability in East Africa recorded by Pleistocene lacustrine sediments from Olduvai Gorge, Tanzania. Palaeogeography, Palaeoclimatology, Palaeoecology, 2018, 495, 284-291. | 2.3 | 31 |
| 98 | Radiolysis of Macromolecular Organic Material in Marsâ€Relevant Mineral Matrices. Journal of Geophysical Research E: Planets, 2019, 124, 3257-3266. | 3.6 | 30 |
| 99 | Anaerobic biodegradation of the isoprenoid biomarkers pristane and phytane. Organic Geochemistry, 2013, 65, 118-126. | 1.8 | 28 |
| 100 | Seasonal variations in aridity and temperature characterize changing climate during the last deglaciation in New Zealand. Quaternary Science Reviews, 2013, 74, 245-256. | 3.0 | 28 |
| 101 | Origin of a global carbonate layer deposited in the aftermath of the Cretaceous-Paleogene boundary impact. Earth and Planetary Science Letters, 2020, 548, 116476. | 4.4 | 28 |
| 102 | Flow discharge influences on input and transport of particulate and sedimentary organic carbon along a small temperate river. Geochimica Et Cosmochimica Acta, 2012, 77, 317-334. | 3.9 | 26 |
| 103 | Controls on the stratigraphic distribution and nitrogen isotopic composition of zinc, vanadyl and free base porphyrins through Oceanic Anoxic Event 2 at Demerara Rise. Organic Geochemistry, 2015, 80, 60-71. | 1.8 | 25 |
| 104 | Pigment carbon and nitrogen isotopic signatures in euxinic basins. Geobiology, 2018, 16, 429-445. | 2.4 | 25 |
| 105 | The influence of pressure on crude oil biodegradation in shallow and deep Gulf of Mexico sediments. PLoS ONE, 2018, 13, e0199784. | 2.5 | 25 |
| 106 | Evidence for Shelf Acidification During the Onset of the Paleoceneâ€Eocene Thermal Maximum. Paleoceanography and Paleoclimatology, 2018, 33, 1408-1426. | 2.9 | 24 |
| 107 | Black Sea chemocline oscillations during the Holocene: molecular and isotopic studies of marginal sediments. Organic Geochemistry, 2000, 31, 1525-1531. | 1.8 | 23 |
| 108 | Appraising the roles of nutrient availability, global change, and functional traits during the angiosperm rise to dominance. Ecology Letters, 2010, 13, E1-6. | 6.4 | 23 |

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| 109 | Validation of Claims Algorithms for Progression to Metastatic Cancer in Patients with Breast, Non-small Cell Lung, and Colorectal Cancer. Frontiers in Oncology, 2016, 6, 18. | 2.8 | 23 |
| 110 | What controls the concentration of various aliphatic lipids in soil?. Soil Biology and Biochemistry, 2013, 63, 14-17. | 8.8 | 22 |
| 111 | Aquatic biomarkers record Pleistocene environmental changes at Paleolake Olduvai, Tanzania. Palaeogeography, Palaeoclimatology, Palaeoecology, 2019, 524, 250-261. | 2.3 | 22 |
| 112 | Subboreal aridity and scytonemin in the Holocene Black Sea. Organic Geochemistry, 2012, 49, 47-55. | 1.8 | 21 |
| 113 | Correlating the Ancient Maya and Modern European Calendars with High-Precision AMS 14C Dating. Scientific Reports, 2013, 3, 1597. | 3.3 | 21 |
| 114 | Canopy structure in Late Cretaceous and Paleocene forests as reconstructed from carbon isotope analyses of fossil leaves. Geology, 2019, 47, 977-981. | 4.4 | 19 |
| 115 | Picomolar-scale compound-specific isotope analyses. Rapid Communications in Mass Spectrometry, 2018, 32, 730-738. | 1.5 | 18 |
| 116 | Carbon Isotope Record of Trace nâ€alkanes in a Continental PETM Section Recovered by the Bighorn Basin Coring Project (BBCP). Paleoceanography and Paleoclimatology, 2019, 34, 853-865. | 2.9 | 18 |
| 117 | Clarifying the influence of water availability and plant types on carbon isotope discrimination by C3 plants. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, E59-60; author reply E61. | 7.1 | 17 |
| 118 | Enhanced resolution of organic compounds from sediments by isotopic gas chromatographyâ€"combustionâ€"mass spectrometry. Journal of Chromatography A, 1991, 585, 177-180. | 3.7 | 15 |
| 119 | Intramolecular carbon isotopic analysis of acetic acid by direct injection of aqueous solution. Organic Geochemistry, 2009, 40, 195-200. | 1.8 | 14 |
| 120 | Microbial communities and organic biomarkers in a Proterozoicâ€analog sinkhole. Geobiology, 2017, 15, 784-797. | 2.4 | 14 |
| 121 | Late Miocene C<sub>4</sub> Grassland Fire Feedbacks on the Indian Subcontinent. Paleoceanography and Paleoclimatology, 2021, 36, e2020PA004106. | 2.9 | 14 |
| 122 | Hydrologic Changes Drove the Late Miocene Expansion of C<sub>4</sub> Grasslands on the Northern Indian Subcontinent. Paleoceanography and Paleoclimatology, 2021, 36, e2020PA004108. | 2.9 | 14 |
| 123 | Rapid sequential separation of sedimentary lipid biomarkers via selective accelerated solvent extraction. Organic Geochemistry, 2015, 88, 29-34. | 1.8 | 13 |
| 124 | 11. Isotopie Biogeochemistry of Marine Organic Carbon. , 2001, , 579-606. | | 12 |
| 125 | The Habitat of the Nascent Chicxulub Crater. AGU Advances, 2020, 1, e2020AV000208. | 5.4 | 12 |
| 126 | Microbial biomarkers reveal a hydrothermally active landscape at Olduvai Gorge at the dawn of the Acheulean, 1.7 Ma. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 24720-24728. | 7.1 | 12 |

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| 127 | A mechanism for carbon isotope exchange between aqueous acetic acid and : An ab initio study. Organic Geochemistry, 2005, 36, 835-850. | 1.8 | 11 |
| 128 | Unexpected occurrence and significance of zinc alkyl porphyrins in Cenomanianâ€“Turonian black shales of the Demerara Rise. Organic Geochemistry, 2008, 39, 1081-1087. | 1.8 | 11 |
| 129 | Archaeal lipids record paleosalinity in hypersaline systems. Organic Geochemistry, 2011, , . | 1.8 | 11 |
| 130 | Compound-specific Î´15N and chlorin preservation in surface sediments of the Peru Margin with implications for ancient bulk Î´15N records. Geochimica Et Cosmochimica Acta, 2015, 160, 306-318. | 3.9 | 11 |
| 131 | Trans-Amazon Drilling Project (TADP): origins and evolution of the forests, climate, and hydrology of the South American tropics. Scientific Drilling, 0, 20, 41-49. | 0.6 | 11 |
| 132 | Climate response of the Florida Peninsula to Heinrich events in the North Atlantic. Quaternary Science Reviews, 2018, 194, 1-11. | 3.0 | 10 |
| 133 | Biogeochemical evidence for environmental changes of Pleistocene Lake Olduvai during the transitional sequence of OGCP core 2A that encompasses Tuff IB (~1.848â€¯Ma). Palaeogeography, Palaeoclimatology, Palaeoecology, 2019, 532, 109267. | 2.3 | 10 |
| 134 | Reply to the Comment by S. Schouten, M. van der Meer, E. Hopmans, and J.S. Sinninghe DamstÃ© on â€œLipids of marine Archaea: Patterns and provenance in the water columnâ€• Geochimica Et Cosmochimica Acta, 2008, 72, 5347-5349. | 3.9 | 9 |
| 135 | Chlorins in mid-Cretaceous black shales of the Demerara Rise: The oldest known occurrence. Organic Geochemistry, 2011, 42, 856-859. | 1.8 | 9 |
| 136 | Compound-Specific Isotope Analyses of Products from Carbonization of a Fluid Catalytic Cracking Decant Oil Doped with13C-Enriched 4-Methyldibenzothiophene. Energy & Fuels, 1997, 11, 637-646. | 5.1 | 8 |
| 137 | Draft Genome Sequence of the Piezotolerant and Crude Oil-Degrading Bacterium Rhodococcus qingshengii Strain TUHH-12. Genome Announcements, 2015, 3, . | 0.8 | 8 |
| 138 | Biogeochemical evidence from OGCP Core 2A sediments for environmental changes preceding deposition of Tuff IB and climatic transitions in Upper Bed I of the Olduvai Basin. Palaeogeography, Palaeoclimatology, Palaeoecology, 2020, 555, 109824. | 2.3 | 8 |
| 139 | Carbon isotope relationships between sulfide-bound steroids and proposed functionalized lipid precursors in sediments from the Santa Barbara Basin, California. Organic Geochemistry, 1996, 25, 367-377. | 1.8 | 7 |
| 140 | Mission Statement: Advancing the science of pediatric mental health and promoting the care of youth and their families. Journal of the American Academy of Child and Adolescent Psychiatry, 2008, 47, 1. | 0.5 | 7 |
| 141 | Synchronous Marine and Terrestrial Carbon Cycle Perturbation in the High Arctic During the PETM. Paleoceanography and Paleoclimatology, 2021, 36, e2020PA003942. | 2.9 | 7 |
| 142 | Reply to 'Constraints on hyperthermals'. Nature Geoscience, 2012, 5, 231-232. | 12.9 | 6 |
| 143 | Soil Carbon Loss and Weak Fire Feedbacks During Pliocene C<sub>4</sub> Grassland Expansion in Australia. Geophysical Research Letters, 2021, 48, e2020GL090964. | 4.0 | 6 |
| 144 | Decreased soil carbon in a warming world: Degraded pyrogenic carbon during the Paleocene-Eocene Thermal Maximum, Bighorn Basin, Wyoming. Earth and Planetary Science Letters, 2021, 566, 116970. | 4.4 | 6 |

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| 145 | Alkenone-Based Estimates of Past CO2 Levels: A Consideration of Their Utility Based on an Analysis of Uncertainties. , 2005, , 35-61. | | 4 |
| 146 | Where would we be without the isotopes?. Organic Geochemistry, 2008, 39, 483-484. | 1.8 | 4 |
| 147 | Carbon isotopic heterogeneity of coenzyme F430 and membrane lipids in methaneâ€oxidizing archaea. Geobiology, 2019, 17, 611-627. | 2.4 | 3 |
| 148 | Soil carbon degradation during the Paleocene-Eocene Thermal Maximum in the Piceance Basin, USA. Palaeogeography, Palaeoclimatology, Palaeoecology, 2021, 564, 110182. | 2.3 | 3 |
| 149 | Position-specific isotope fractionation in amino acids sorbed to ice: Implications for the preservation of isotopologue biosignatures. Geochimica Et Cosmochimica Acta, 2021, 309, 45-56. | 3.9 | 3 |
| 150 | Patterns of Organic-Carbon Enrichment in a Lacustrine Source Rock in Relation to Paleoâ€“Lake Level, Congo Basin, West Africa. , 2011, , 103-123. | | 3 |
| 151 | Biased preservation of Pleistocene climate variability proxies at Olduvai Gorge, Tanzania. Palaeogeography, Palaeoclimatology, Palaeoecology, 2021, 562, 109940. | 2.3 | 2 |
| 152 | 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 |
| 153 | Geoffrey Eglinton (1927â€“2016). Nature, 2016, 532, 314-314. | 27.8 | 1 |
| 154 | John M. Hayes 1940â€“2017. Father of isotopes in modern and ancient biogeochemical processes, biosynthetic carbon and hydrogen isotope fractionation and compound specific isotope analytical techniques. Organic Geochemistry, 2017, 108, 113-116. | 1.8 | 1 |
| 155 | Carbon and ancient climates. Nature Geoscience, 2017, 10, 6-6. | 12.9 | 1 |
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