T I Eglinton

List of Publications by Year
in descending order

328 papers	21,526 citations	8181 76 h-index	13771 129 g-index
345 all docs	345 docs citations	345 times ranked	14883 citing authors

#	Article	IF	Citations
1	Seasonal and Annual Fluxes of Nutrients and Organic Matter from Large Rivers to the Arctic Ocean and Surrounding Seas. Estuaries and Coasts, 2012, 35, 369-382.	2.2	528
2	Molecular proxies for paleoclimatology. Earth and Planetary Science Letters, 2008, 275, 1-16.	4.4	446
3	Global carbon export from the terrestrial biosphere controlled by erosion. Nature, 2015, 521, 204-207.	27.8	394
4	A reassessment of the sources and importance of land-derived organic matter in surface sediments from the Gulf of Mexico. Geochimica Et Cosmochimica Acta, 1998, 62, 3055-3075.	3.9	376
5	Mineral protection regulates long-term global preservation of natural organic carbon. Nature, 2019, 570, 228-231.	27.8	354
6	Iron Fertilization of the Subantarctic Ocean During the Last Ice Age. Science, 2014, 343, 1347-1350.	12.6	350
7	Evaluation of a protocol for the quantification of black carbon in sediments. Global Biogeochemical Cycles, 2001, 15, 881-890.	4.9	341
8	Compound-specific D/H ratios of lipid biomarkers from sediments as a proxy for environmental and climatic conditions. Geochimica Et Cosmochimica Acta, 2001, 65, 213-222.	3.9	336
9	Selective preservation of organic matter in marine environments; processes and impact on the sedimentary record. Biogeosciences, 2010, 7, 483-511.	3.3	331
10	Gas Chromatographic Isolation of Individual Compounds from Complex Matrices for Radiocarbon Dating. Analytical Chemistry, 1996, 68, 904-912.	6.5	320
11	Sources and contribution of terrigenous organic carbon to surface sediments in the Gulf of Mexico. Nature, 1997, 389, 275-278.	27.8	312
12	Activation of old carbon by erosion of coastal and subsea permafrost in Arctic Siberia. Nature, 2012, 489, 137-140.	27.8	303
13	Variability in Radiocarbon Ages of Individual Organic Compounds from Marine Sediments. Science, 1997, 277, 796-799.	12.6	291
14	The West Falmouth Oil Spill after Thirty Years:Â The Persistence of Petroleum Hydrocarbons in Marsh Sediments. Environmental Science & Technology, 2002, 36, 4754-4760.	10.0	282
15	14C-Dead Living Biomass: Evidence for Microbial Assimilation of Ancient Organic Carbon During Shale Weathering. Science, 2001, 292, 1127-1131.	12.6	271
16	The effect of grain size and surface area on organic matter, lignin and carbohydrate concentration, and molecular compositions in Peru Margin sediments. Geochimica Et Cosmochimica Acta, 1997, 61, 1247-1260.	3.9	266
17	Detecting the signature of permafrost thaw in Arctic rivers. Geophysical Research Letters, 2015, 42, 2830-2835.	4.0	261
18	Origins of lipid biomarkers in Santa Monica Basin surface sediment: a case study using compound-specific Î" 14 C analysis. Geochimica Et Cosmochimica Acta, 2001, 65, 3123-3137.	3.9	260

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19	Spatial and Temporal Offsets Between Proxy Records in a Sediment Drift. Science, 2002, 298, 1224-1227.	12.6	257
20	Distribution and sources of organic biomarkers in arctic sediments from the Mackenzie River and Beaufort Shelf. Marine Chemistry, 2000, 71, 23-51.	2.3	256
21	The supply and preservation of ancient and modern components of organic carbon in the Canadian Beaufort Shelf of the Arctic Ocean. Marine Chemistry, 2005, 93, 53-73.	2.3	253
22	Abrupt Tropical Vegetation Response to Rapid Climate Changes. Science, 2004, 304, 1955-1959.	12.6	244
23	Organic sulphur in macromolecular sedimentary organic matter: I. Structure and origin of sulphur-containing moieties in kerogen, asphaltenes and coal as revealed by flash pyrolysis. Geochimica Et Cosmochimica Acta, 1989, 53, 873-889.	3.9	235
24	High biolability of ancient permafrost carbon upon thaw. Geophysical Research Letters, 2013, 40, 2689-2693.	4.0	230
25	Compound-specific carbon isotopes from Earthâ€™s largest flood basalt eruptions directly linked to the end-Triassic mass extinction. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 6721-6725.	7.1	220
26	A field study of the chemical weathering of ancient sedimentary organic matter. Organic Geochemistry, 2000, 31, 475-487.	1.8	216
27	High-Resolution Record of Pyrogenic Polycyclic Aromatic Hydrocarbon Deposition during the 20th Century. Environmental Science & Technology, 2003, 37, 53-61.	10.0	213
28	Recycling of Graphite During Himalayan Erosion: A Geological Stabilization of Carbon in the Crust. Science, 2008, 322, 943-945.	12.6	205
29	Radiocarbon as a Tool To Apportion the Sources of Polycyclic Aromatic Hydrocarbons and Black Carbon in Environmental Samples. Environmental Science & Technology, 2002, 36, 1774-1782.	10.0	200
30	Utilization of ancient permafrost carbon in headwaters of Arctic fluvial networks. Nature Communications, 2015, 6, 7856.	12.8	189
31	Constraints on the origin of sedimentary organic carbon in the Beaufort Sea from coupled molecular 13C and 14C measurements. Marine Chemistry, 2007, 103, 146-162.	2.3	186
32	Centers of organic carbon burial and oxidation at the land-ocean interface. Organic Geochemistry, 2018, 115, 138-155.	1.8	184
33	Differential mobilization of terrestrial carbon pools in Eurasian Arctic river basins. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 14168-14173.	7.1	180
34	Biomarker records of late Neogene changes in northeast African vegetation. Geology, 2005, 33, 977.	4.4	179
35	An intercomparison of cross-flow filtration techniques used for sampling marine colloids: Overview and organic carbon results. Marine Chemistry, 1996, 55, 1-31.	2.3	173
36	A critical evaluation of interlaboratory data on total, elemental, and isotopic carbon in the carbonaceous particle reference material, NIST SRM 1649a. Journal of Research of the National Institute of Standards and Technology, 2002, 107, 279.	1.2	163

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37	The origin of n -alkanes in Santa Monica Basin surface sediment: a model based on compound-specific Î" 14 C and Î´ 13 C data. Organic Geochemistry, 2000, 31, 1103-1116.	1.8	161
38	Northeast African vegetation change over 12 m.y.. Geology, 2013, 41, 295-298.	4.4	154
39	Sulfonates: A novel class of organic sulfur compounds in marine sediments. Geochimica Et Cosmochimica Acta, 1994, 58, 4681-4687.	3.9	153
40	Drought, agricultural adaptation, and sociopolitical collapse in the Maya Lowlands. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 5607-5612.	7.1	152
41	Rapid estimation of the organic sulphur content of kerogens, coals and asphaltenes by pyrolysis-gas chromatography. Fuel, 1990, 69, 1394-1404.	6.4	151
42	Protracted storage of biospheric carbon in the Gangesâ€"Brahmaputra basin. Nature Geoscience, 2011, 4, 843-847.	12.9	150
43	Pre-aged soil organic carbon as a major component of the Yellow River suspended load: Regional significance and global relevance. Earth and Planetary Science Letters, 2015, 414, 77-86.	4.4	148
44	Eastern Pacific cooling and Atlantic overturning circulation during the last deglaciation. Nature, 2006, 443, 846-849.	27.8	136
45	Asynchronous alkenone and foraminifera records from the Benguela Upwelling System. Geochimica Et Cosmochimica Acta, 2003, 67, 2157-2171.	3.9	133
46	Characterization of a highly resistant biomacromolecular material in the cell wall of a marine dinoflagellate resting cyst. Organic Geochemistry, 1998, 28, 265-288.	1.8	131
47	Characterization of Sulfur-Containing Functional Groups in Sedimentary Humic Substances by X-ray Absorption Near-Edge Structure Spectroscopy. Energy & Fuels, 1997, 11, 546-553.	5.1	122
48	Composition, age, and provenance of organic matter in NW African dust over the Atlantic Ocean. Geochemistry, Geophysics, Geosystems, 2002, 3, 1-27.	2.5	118
49	Origins of archaeal tetraether lipids in sediments: Insights from radiocarbon analysis. Geochimica Et Cosmochimica Acta, 2008, 72, 4577-4594.	3.9	118
50	Molecular records of continental air temperature and monsoon precipitation variability in East Asia spanning the past 130,000 years. Quaternary Science Reviews, 2014, 83, 76-82.	3.0	118
51	Widespread dispersal and aging of organic carbon in shallow marginal seas. Geology, 2016, 44, 791-794.	4.4	118
52	Unique distributions of hydrocarbons and sulphur compounds released by flash pyrolysis from the fossilised alga Gloeocapsomorpha prisca, a major constituent in one of four Ordovician kerogens. Geochimica Et Cosmochimica Acta, 1991, 55, 275-291.	3.9	114
53	Molecular and radiocarbon constraints on sources and degradation of terrestrial organic carbon along the Kolyma paleoriver transect, East Siberian Sea. Biogeosciences, 2010, 7, 3153-3166.	3.3	113
54	Global-scale evidence for the refractory nature of riverine black carbon. Nature Geoscience, 2018, 11, 584-588.	12.9	111

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55	The provenance of vegetation and environmental signatures encoded in vascular plant biomarkers carried by the Gangesâ€"Brahmaputra rivers. Earth and Planetary Science Letters, 2011, 304, 1-12.	4.4	107
56	Ancient polycyclic aromatic hydrocarbons in modern soils: 13C, 14C and biomarker evidence. Organic Geochemistry, 1997, 26, 353-359.	1.8	104
57	Mineralogical control on the fate of continentally derived organic matter in the ocean. Science, 2019, 366, 742-745.	12.6	104
58	Aging of marine organic matter during crossâ€shelf lateral transport in the Benguela upwelling system revealed by compoundâ€specific radiocarbon dating. Geochemistry, Geophysics, Geosystems, 2007, 8, .	2.5	103
59	An evaluation of14C age relationships between co-occurring foraminifera, alkenones, and total organic carbon in continental margin sediments. Paleoceanography, 2005, 20, n/a-n/a.	3.0	101
60	Formation and diagenesis of macromolecular organic sulfur in Peru margin sediments. Organic Geochemistry, 1994, 22, 781-799.	1.8	100
61	Positive priming of terrestrially derived dissolved organic matter in a freshwater microcosm system. Geophysical Research Letters, 2015, 42, 5460-5467.	4.0	100
62	Microbial oxidation of lithospheric organic carbon in rapidly eroding tropical mountain soils. Science, 2018, 360, 209-212.	12.6	97
63	Quantitative study of biomarker hydrocarbons released from kerogens during hydrous pyrolysis. Energy & Fuels, 1988, 2, 81-88.	5.1	94
64	Blank Assessment for Ultra-Small Radiocarbon Samples: Chemical Extraction and Separation Versus AMS. Radiocarbon, 2010, 52, 1322-1335.	1.8	92
65	Biological pump processes in the cryopelagic and hemipelagic Arctic Ocean: Canada Basin and Chukchi Rise. Progress in Oceanography, 2010, 85, 137-170.	3.2	92
66	Bacterial incorporation of relict carbon in the hydrothermal environment of Guaymas Basin. Geochimica Et Cosmochimica Acta, 2005, 69, 5477-5486.	3.9	91
67	Identification of a novel alkenone in Black Sea sediments. Organic Geochemistry, 2001, 32, 633-645.	1.8	89
68	A solid state 13C-NMR study of kerogen degradation during black shale weathering. Geochimica Et Cosmochimica Acta, 2001, 65, 1867-1882.	3.9	89
69	Stable carbon isotopic analyses of lignin-derived CuO oxidation products by isotope ratio monitoring-gas chromatography-mass spectrometry (irm-GC-MS). Organic Geochemistry, 1996, 24, 601-615.	1.8	88
70	Understanding the Role of the Biological Pump in the Global Carbon Cycle: An Imperative for Ocean Science. Oceanography, 2014, 27, 10-16.	1.0	88
71	Diagenetic and sedimentological controls on the composition of organic matter preserved in California Borderland Basin sediments. Limnology and Oceanography, 2007, 52, 558-576.	3.1	87
72	High-resolution historical records from Pettaquamscutt River basin sediments: 2. Pb isotopes reveal a potential new stratigraphic marker. Geochimica Et Cosmochimica Acta, 2005, 69, 1813-1824.	3.9	84

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73	Diverse origins and pre-depositional histories of organic matter in contemporary Chinese marginal sea sediments. Geochimica Et Cosmochimica Acta, 2016, 191, 70-88.	3.9	84
74	Microbial transformations of organic matter in black shales and implications for global biogeochemical cycles. Palaeogeography, Palaeoclimatology, Palaeoecology, 2005, 219, 157-170.	2.3	83
75	Rare earth element association with foraminifera. Geochimica Et Cosmochimica Acta, 2012, 94, 57-71.	3.9	82
76	Indonesian vegetation response to changes in rainfall seasonality over the past 25,000 years. Nature Geoscience, 2014, 7, 513-517.	12.9	80
77	A new look at old carbon in active margin sediments. Geology, 2009, 37, 239-242.	4.4	78
78	Carbon dynamics in the western Arctic Ocean: insights from full-depth carbon isotope profiles of DIC, DOC, and POC. Biogeosciences, 2012, 9, 1217-1224.	3.3	78
79	DNA and lipid molecular stratigraphic records of haptophyte succession in the Black Sea during the Holocene. Earth and Planetary Science Letters, 2009, 284, 610-621.	4.4	77
80	An interlaboratory study of TEX₈₆ and BIT analysis of sediments, extracts, and standard mixtures. Geochemistry, Geophysics, Geosystems, 2013, 14, 5263-5285.	2.5	76
81	Tectonically-triggered sediment and carbon export to the Hadal zone. Nature Communications, 2018, 9, 121.	12.8	75
82	Spatial variability in the abundance, composition, and age of organic matter in surficial sediments of the East China Sea. Journal of Geophysical Research G: Biogeosciences, 2013, 118, 1495-1507.	3.0	74
83	The kinetics of sterane biological marker release and degradation processes during the hydrous pyrolysis of vitrinite kerogen. Geochimica Et Cosmochimica Acta, 1990, 54, 2451-2461.	3.9	72
84	Preferential burial of permafrostâ€derived organic carbon in <scp>S</scp>iberianâ€<scp>A</scp>rctic shelf waters. Journal of Geophysical Research: Oceans, 2014, 119, 8410-8421.	2.6	71
85	Generation of water-soluble organic acids from kerogen during hydrous pyrolysis: implications for porosity development. Mineralogical Magazine, 1987, 51, 495-503.	1.4	70
86	Determination of Microbial Carbon Sources in Petroleum Contaminated Sediments Using Molecular14C Analysis. Environmental Science & Technology, 2005, 39, 2552-2558.	10.0	70
87	Stable chlorine and carbon isotopic compositions of selected semi-volatile organochlorine compounds. Organic Geochemistry, 2002, 33, 437-444.	1.8	67
88	High-resolution historical records from Pettaquamscutt River basin sediments: 1. 210Pb and varve chronologies validate record of 137Cs released by the Chernobyl accident. Geochimica Et Cosmochimica Acta, 2005, 69, 1803-1812.	3.9	65
89	Hydrologic control of carbon cycling and aged carbon discharge in the Congo River basin. Nature Geoscience, 2016, 9, 687-690.	12.9	65
90	Organic sulphur in macromolecular sedimentary organic matter. II. Analysis of distributions of sulphur-containing pyrolysis products using multivariate techniques. Geochimica Et Cosmochimica Acta, 1992, 56, 1545-1560.	3.9	64

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91	Carbon isotopic evidence for the origin of macromolecular aliphatic structures in kerogen. Organic Geochemistry, 1994, 21, 721-735.	1.8	64
92	Pre-aged plant waxes in tropical lake sediments and their influence on the chronology of molecular paleoclimate proxy records. Geochimica Et Cosmochimica Acta, 2014, 141, 346-364.	3.9	64
93	Climate control on terrestrial biospheric carbon turnover. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	64
94	Postglacial changes in El NiÃ±o and La NiÃ±a behavior. Geology, 2010, 38, 43-46.	4.4	63
95	Widespread influence of resuspended sediments on oceanic particulate organic carbon: Insights from radiocarbon and aluminum contents in sinking particles. Global Biogeochemical Cycles, 2010, 24, .	4.9	63
96	14C and 13C characteristics of higher plant biomarkers in Washington margin surface sediments. Geochimica Et Cosmochimica Acta, 2013, 105, 14-30.	3.9	61
97	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
98	New constraints on the provenance of hopanoids in the marine geologic record: Bacteriohopanepolyols in marine suboxic and anoxic environments. Organic Geochemistry, 2011, 42, 1351-1362.	1.8	60
99	Leaf waxes in litter and topsoils along a European transect. Soil, 2016, 2, 551-564.	4.9	60
100	Online ¹³C and ¹⁴C Gas Measurements by EA-IRMSâ€“AMS at ETH ZÃ¼rich. Radiocarbon, 2017, 59, 893-903.	1.8	60
101	A radiocarbon-based assessment of the preservation characteristics of crenarchaeol and alkenones from continental margin sediments. Organic Geochemistry, 2008, 39, 1039-1045.	1.8	59
102	Alkylpyrroles in a kerogen pyrolysate: Evidence for abundant tetrapyrrole pigments. Geochimica Et Cosmochimica Acta, 1992, 56, 1743-1751.	3.9	58
103	On the sedimentological origin of down-core variations of bulk sedimentary nitrogen isotope ratios. Paleoceanography, 2005, 20, n/a-n/a.	3.0	58
104	3500 yr record of centennial-scale climate variability from the Western Pacific Warm Pool. Geology, 2008, 36, 795.	4.4	58
105	Megathrust earthquake drives drastic organic carbon supply to the hadal trench. Scientific Reports, 2019, 9, 1553.	3.3	58
106	Molecular characterization of microgram amounts of oceanic colloidal organic matter by direct temperature-resolved ammonia chemical ionization mass spectrometry. Organic Geochemistry, 1998, 29, 1051-1061.	1.8	57
107	Even carbon number predominance of plant wax n-alkanes. Organic Geochemistry, 2000, 31, 331-336.	1.8	57
108	Stable Chlorine Isotopic Compositions of Aroclors and Aroclor-Contaminated Sediments. Environmental Science & Technology, 2000, 34, 2866-2870.	10.0	57

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109	Influence of Hydrodynamic Processes on the Fate of Sedimentary Organic Matter on Continental Margins. Global Biogeochemical Cycles, 2018, 32, 1420-1432.	4.9	57
110	Tracing river chemistry in space and time: Dissolved inorganic constituents of the Fraser River, Canada. Geochimica Et Cosmochimica Acta, 2014, 124, 283-308.	3.9	56
111	Flash pyrolysis of artificially matured kerogens from the Kimmeridge Clay, U.K.. Organic Geochemistry, 1988, 12, 33-41.	1.8	54
112	The Absence and Application of Stable Carbon Isotopic Fractionation during the Reductive Dechlorination of Polychlorinated Biphenyls. Environmental Science & Technology, 2001, 35, 3310-3313.	10.0	54
113	Radiocarbon Dating of Individual Fatty Acids as a Tool for Refining Antarctic Margin Sediment Chronologies. Radiocarbon, 2003, 45, 17-24.	1.8	54
114	Ongoing Buildup of Refractory Organic Carbon in Boreal Soils During the Holocene. Science, 2006, 314, 1283-1286.	12.6	54
115	A comparison of biomarker records of northeast African vegetation from lacustrine and marine sediments (ca. 3.40Ma). Organic Geochemistry, 2007, 38, 1607-1624.	1.8	54
116	The radiocarbon age of organic carbon in marine surface sediments. Geochimica Et Cosmochimica Acta, 2010, 74, 6788-6800.	3.9	53
117	Dissolved organic carbon loss from Yedoma permafrost amplified by ice wedge thaw. Environmental Research Letters, 2013, 8, 035023.	5.2	53
118	Radiocarbon Evidence for a Naturally Produced, Bioaccumulating Halogenated Organic Compound. Environmental Science & Technology, 2004, 38, 1992-1997.	10.0	52
119	Compound-specific radiocarbon dating of the varved Holocene sedimentary record of Saanich Inlet, Canada. Paleoceanography, 2004, 19, n/a-n/a.	3.0	52
120	Low photolability of yedoma permafrost dissolved organic carbon. Journal of Geophysical Research G: Biogeosciences, 2017, 122, 200-211.	3.0	52
121	Abundance, Composition, and Vertical Transport of PAHs in Marsh Sediments. Environmental Science & Technology, 2005, 39, 8273-8280.	10.0	51
122	The importance of ultrafine particles as a control on the distribution of organic carbon in Washington Margin and Cascadia Basin sediments. Chemical Geology, 2007, 243, 142-156.	3.3	51
123	Event Stratigraphy in a Hadal Oceanic Trench: The Japan Trench as Sedimentary Archive Recording Recurrent Giant Subduction Zone Earthquakes and Their Role in Organic Carbon Export to the Deep Sea. Frontiers in Earth Science, 2019, 7, .	1.8	51
124	Kerogen-mineral reactions at raised temperatures in the presence of water. Organic Geochemistry, 1986, 10, 1041-1052.	1.8	48
125	Biomarkers record environmental changes along an altitudinal transect in the wettest place on Earth. Organic Geochemistry, 2013, 60, 93-99.	1.8	48
126	Sources of terrigenous inputs to surface sediments of the Colville River Delta and Simpson's Lagoon, Beaufort Sea, Alaska. Journal of Geophysical Research G: Biogeosciences, 2013, 118, 808-824.	3.0	48

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127	Tropical rainfall over the last two millennia: evidence for a low-latitude hydrologic seesaw. Scientific Reports, 2017, 7, 45809.	3.3	48
128	Millennial soil retention of terrestrial organic matter deposited in the Bengal Fan. Scientific Reports, 2018, 8, 11997.	3.3	48
129	An organic tracer for surface ocean radiocarbon. Paleoceanography, 2000, 15, 541-550.	3.0	47
130	Marked isotopic variability within and between the Amazon River and marine dissolved black carbon pools. Nature Communications, 2019, 10, 4018.	12.8	47
131	Compound-Specific Radiocarbon Analysis by Elemental Analyzerâ€"Accelerator Mass Spectrometry: Precision and Limitations. Analytical Chemistry, 2019, 91, 2042-2049.	6.5	47
132	13C and 14C evidence of pollution of a soil by fossil fuel and reconstruction of the composition of the pollutant. Organic Geochemistry, 1995, 23, 969-973.	1.8	46
133	Branched glycerol dialkyl glycerol tetraethers in Arctic lake sediments: Sources and implications for paleothermometry at high latitudes. Journal of Geophysical Research G: Biogeosciences, 2014, 119, 1738-1754.	3.0	46
134	Multimolecular tracers of terrestrial carbon transfer across the panâ€Arctic: ¹⁴C characteristics of sedimentary carbon components and their environmental controls. Global Biogeochemical Cycles, 2015, 29, 1855-1873.	4.9	46
135	Abundance, distribution and Î´13 C analysis of microbial phospholipid-derived fatty acids in a black shale weathering profile. Organic Geochemistry, 2003, 34, 731-743.	1.8	45
136	Short communication: Massive erosion in monsoonal central India linked to late Holocene land cover degradation. Earth Surface Dynamics, 2017, 5, 781-789.	2.4	45
137	Lateral organic carbon supply to the deep Canada Basin. Geophysical Research Letters, 2008, 35, .	4.0	44
138	Spatiotemporal Variation of the Quality, Origin, and Age of Particulate Organic Matter Transported by the Yangtze River (Changjiang). Journal of Geophysical Research G: Biogeosciences, 2018, 123, 2908-2921.	3.0	44
139	Millennial-scale hydroclimate control of tropical soil carbon storage. Nature, 2020, 581, 63-66.	27.8	44
140	Organic Carbon Aging During Acrossâ€Shelf Transport. Geophysical Research Letters, 2018, 45, 8425-8434.	4.0	43
141	Isotopic and molecular fractionation in combustion; three routes to molecular marker validation, including direct molecular â€˜datingâ€™ (GC/AMS). Atmospheric Environment, 1999, 33, 2789-2806.	4.1	42
142	Pangean great lake paleoecology on the cusp of the end-Triassic extinction. Palaeogeography, Palaeoclimatology, Palaeoecology, 2011, 301, 1-17.	2.3	42
143	Characterization of Organically Bound Sulfur in High-Molecular-Weight, Sedimentary Organic Matter Using Flash Pyrolysis and Raney Ni Desulfurization. ACS Symposium Series, 1990, , 486-528.	0.5	41
144	Alkenones as paleoceanographic proxies. Geochemistry, Geophysics, Geosystems, 2000, 1, n/a-n/a.	2.5	41

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145	Rapid lateral particle transport in the Argentine Basin: Molecular 14C and 230Thxs evidence. Deep-Sea Research Part I: Oceanographic Research Papers, 2006, 53, 1224-1243.	1.4	41
146	Lipid biomarkers in Symbiodinium dinoflagellates: new indicators of thermal stress. Coral Reefs, 2013, 32, 923-934.	2.2	41
147	Radiocarbon â€œdatingâ€•of individual chemical compounds in atmospheric aerosol: First results comparing direct isotopic and multivariate statistical apportionment of specific polycyclic aromatic hydrocarbons. Nuclear Instruments & Methods in Physics Research B, 1997, 123, 475-486.	1.4	40
148	Isotopic Constraints on the Fate of Petroleum Residues Sequestered in Salt Marsh Sediments. Environmental Science & Technology, 2005, 39, 2545-2551.	10.0	39
149	Historical records of organic matter supply and degradation status in the East Siberian Sea. Organic Geochemistry, 2016, 91, 16-30.	1.8	39
150	Relationships between grain size and organic carbon 14C heterogeneity in continental margin sediments. Earth and Planetary Science Letters, 2019, 505, 76-85.	4.4	39
151	Fluvial organic carbon cycling regulated by sediment transit time and mineral protection. Nature Geoscience, 2021, 14, 842-848.	12.9	39
152	Radiocarbon content of synthetic and natural semi-volatile halogenated organic compounds. Environmental Pollution, 2002, 120, 163-168.	7.5	38
153	Compound-specific radiocarbon dating of Ross Sea sediments: A prospect for constructing chronologies in high-latitude oceanic sediments. Quaternary Geochronology, 2008, 3, 235-243.	1.4	38
154	Diverse Soil Carbon Dynamics Expressed at the Molecular Level. Geophysical Research Letters, 2017, 44, 11,840.	4.0	38
155	Comprehensive radiocarbon analysis of benzene polycarboxylic acids (BPCAs) derived from pyrogenic carbon in environmental samples. Radiocarbon, 2017, 59, 1103-1116.	1.8	37
156	Abundance and structural diversity of bacteriohopanepolyols in suspended particulate matter along a river to ocean transect. Organic Geochemistry, 2011, 42, 774-780.	1.8	36
157	Microbial mediation of complex subterranean mineral structures. Scientific Reports, 2015, 5, 15525.	3.3	36
158	Sources of organic matter in Changjiang (Yangtze River) bed sediments: Preliminary insights from organic geochemical proxies. Organic Geochemistry, 2015, 85, 11-21.	1.8	36
159	Spatial variations in geochemical characteristics of the modern Mackenzie Delta sedimentary system. Geochimica Et Cosmochimica Acta, 2015, 171, 100-120.	3.9	36
160	Timescales of lateral sediment transport in the Panama Basin as revealed by radiocarbon ages of alkenones, total organic carbon and foraminifera. Earth and Planetary Science Letters, 2010, 290, 340-350.	4.4	35
161	Release of aliphatic, aromatic and sulphur compounds from Kimmeridge kerogen by hydrous pyrolysis: A quantitative study. Organic Geochemistry, 1988, 13, 655-663.	1.8	34
162	Analysis of kerogens and kerogen precursors by flash pyrolysis in combination with isotope-ratio-monitoring gas chromatography-mass spectrometry (irm-GC-MS). Journal of High Resolution Chromatography, 1994, 17, 476-488.	1.4	34

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163	Coupling Î´²H and Î´¹⁸O biomarker results yields information on relative humidity and isotopic composition of precipitation â€“ a climate transect validation study. Biogeosciences, 2015, 12, 3913-3924.	3.3	34
164	Evolution of biomolecular loadings along a major river system. Geochimica Et Cosmochimica Acta, 2018, 223, 389-404.	3.9	34
165	A long-term decrease in the persistence of soil carbon caused by ancient Maya land use. Nature Geoscience, 2018, 11, 645-649.	12.9	34
166	Molecular isotopic insights into hydrodynamic controls on fluvial suspended particulate organic matter transport. Geochimica Et Cosmochimica Acta, 2019, 262, 78-91.	3.9	34
167	C4 plant expansion in the Ganga Plain during the last glacial cycle: Insights from isotopic composition of vascular plant biomarkers. Organic Geochemistry, 2014, 67, 58-71.	1.8	33
168	Sulphuric acid-mediated weathering on Taiwan buffers geological atmospheric carbon sinks. Scientific Reports, 2019, 9, 2945.	3.3	33
169	An Abrupt Aging of Dissolved Organic Carbon in Large Arctic Rivers. Geophysical Research Letters, 2020, 47, e2020GL088823.	4.0	33
170	Terrigenous plant wax inputs to the Arabian Sea: Implications for the reconstruction of winds associated with the Indian Monsoon. Geochimica Et Cosmochimica Acta, 2005, 69, 2547-2558.	3.9	32
171	Radiocarbon Dating of Alkenones from Marine Sediments: I. Isolation Protocol. Radiocarbon, 2005, 47, 401-412.	1.8	31
172	On the stratigraphic integrity of leaf-wax biomarkers in loess paleosols. Biogeosciences, 2014, 11, 2455-2463.	3.3	31
173	Measuring Free, Conjugated, and Halogenated Estrogens in Secondary Treated Wastewater Effluent. Environmental Science & Technology, 2014, 48, 2569-2578.	10.0	31
174	Relevance of carbon stocks of marine sediments for national greenhouse gas inventories of maritime nations. Carbon Balance and Management, 2017, 12, 10.	3.2	31
175	Panâ€Arctic Riverine Dissolved Organic Matter: Synchronous Molecular Stability, Shifting Sources and Subsidies. Global Biogeochemical Cycles, 2021, 35, e2020GB006871.	4.9	31
176	Analysis of Maturity-Related Changes in the Organic Sulfur Composition of Kerogens by Flash Pyrolysisâ€"Gas Chromatography. ACS Symposium Series, 1990, , 529-565.	0.5	30
177	Microscale characterization of algal and related particulate organic matter by direct temperature-resolved mass spectrometry. Marine Chemistry, 1996, 52, 27-54.	2.3	30
178	Branched GDGT signals in fluvial sediments of the Danube River basin: Method comparison and longitudinal evolution. Organic Geochemistry, 2017, 103, 88-96.	1.8	30
179	Impacts of Natural and Human-Induced Hydrological Variability on Particulate Organic Carbon Dynamics in the Yellow River. Environmental Science & Technology, 2019, 53, 1119-1129.	10.0	30
180	Stable chlorine intramolecular kinetic isotope effects from the abiotic dehydrochlorination of DDT. Environmental Science and Pollution Research, 2002, 9, 183-186.	5.3	29

#	Article	IF	Citations
181	Temporal and spatial variability of particle transport in the deep <scp>A</scp>rctic <scp>C</scp>anada <scp>B</scp>asin. Journal of Geophysical Research: Oceans, 2015, 120, 2784-2799.	2.6	29
182	Perspectives on provenance and alteration of suspended and sedimentary organic matter in the subtropical Pearl River system, South China. Geochimica Et Cosmochimica Acta, 2019, 259, 270-287.	3.9	29
183	Interactive effects of elevated <scp>CO</scp>₂ and nitrogen deposition on fatty acid molecular and isotope composition of aboveâ€•and belowground tree biomass and forest soil fractions. Global Change Biology, 2015, 21, 473-486.	9.5	28
184	Hydrological and climatological controls on radiocarbon concentrations in a tropical stalagmite. Geochimica Et Cosmochimica Acta, 2016, 194, 233-252.	3.9	28
185	Hydrologic controls on seasonal and inter-annual variability of Congo River particulate organic matter source and reservoir age. Chemical Geology, 2017, 466, 454-465.	3.3	28
186	Temporal deconvolution of vascular plant-derived fatty acids exported from terrestrial watersheds. Geochimica Et Cosmochimica Acta, 2019, 244, 502-521.	3.9	28
187	Controls on the abundance, provenance and age of organic carbon buried in continental margin sediments. Earth and Planetary Science Letters, 2021, 558, 116759.	4.4	28
188	Isotopic records of tropical vegetation and climate change from terrestrial vascular plant biomarkers preserved in Cariaco Basin sediments. Organic Geochemistry, 2007, 38, 1680-1691.	1.8	27
189	Dynamics of particle export on the Northwest Atlantic margin. Deep-Sea Research Part I: Oceanographic Research Papers, 2009, 56, 1792-1803.	1.4	27
190	Merging late Holocene molecular organic and foraminiferalâ€based geochemical records of sea surface temperature in the Gulf of Mexico. Paleoceanography, 2011, 26, .	3.0	27
191	Carbon cycling and burial in New Zealand's fjords. Geochemistry, Geophysics, Geosystems, 2014, 15, 4047-4063.	2.5	27
192	Temporal variability in composition and fluxes of Yellow River particulate organic matter. Limnology and Oceanography, 2018, 63, S119.	3.1	27
193	Transient hydrodynamic effects influence organic carbon signatures in marine sediments. Nature Communications, 2018, 9, 4690.	12.8	27
194	Towards the limits: Analysis of microscale 14C samples using EA-AMS. Nuclear Instruments & Methods in Physics Research B, 2018, 437, 66-74.	1.4	27
195	Contrasting Fates of Petrogenic and Biospheric Carbon in the South China Sea. Geophysical Research Letters, 2018, 45, 9077-9086.	4.0	26
196	Materials and pathways of the organic carbon cycle through time. Nature Geoscience, 2020, 13, 535-546.	12.9	26
197	Degradation and Aging of Terrestrial Organic Carbon within Estuaries: Biogeochemical and Environmental Implications. Environmental Science & Technology, 2021, 55, 10852-10861.	10.0	26
198	Significance of Perylene for Source Allocation of Terrigenous Organic Matter in Aquatic Sediments. Environmental Science & Technology, 2019, 53, 8244-8251.	10.0	25

#	Article	IF	Citations
199	Pyrolysisâ€“gas chromatographic atomic emission detection for sediments, coals and other petrochemical precursors. Journal of Analytical Atomic Spectrometry, 1992, 7, 979-985.	3.0	24
200	The compositional heterogeneity of particulate organic matter from the surface ocean: an investigation using flow cytometry and DT-MS. Organic Geochemistry, 1998, 29, 1561-1582.	1.8	24
201	Hopanoids in marine cyanobacteria: probing their phylogenetic distribution and biological role. Geobiology, 2012, 10, 311-319.	2.4	24
202	Seasonal hydrology drives rapid shifts in the flux and composition of dissolved and particulate organic carbon and major and trace ions in the Fraser River, Canada. Biogeosciences, 2015, 12, 5597-5618.	3.3	24
203	Multi-molecular tracers of terrestrial carbon transfer across the pan-Arctic: comparison of hydrolyzable components with plant wax lipids and lignin phenols. Biogeosciences, 2015, 12, 4841-4860.	3.3	24
204	Rapid 14C Analysis of Dissolved Organic Carbon in Non-Saline Waters. Radiocarbon, 2016, 58, 505-515.	1.8	24
205	Influence of Different Acid Treatments on the Radiocarbon Content Spectrum of Sedimentary Organic Matter Determined by RPO/Accelerator Mass Spectrometry. Radiocarbon, 2019, 61, 395-413.	1.8	24
206	The Radiocarbon Content of Individual Lignin-Derived Phenols: Technique and Initial Results. Radiocarbon, 2000, 42, 219-227.	1.8	23
207	Distribution of anaerobic ammonia-oxidizing bacteria in a subterranean estuary. Marine Chemistry, 2012, 136-137, 7-13.	2.3	23
208	What on Earth Have We Been Burning? Deciphering Sedimentary Records of Pyrogenic Carbon. Environmental Science & Technology, 2017, 51, 12972-12980.	10.0	23
209	On the Origin of Aged Sedimentary Organic Matter Along a Riverâ€Shelfâ€Deep Ocean Transect. Journal of Geophysical Research G: Biogeosciences, 2019, 124, 2582-2594.	3.0	23
210	The fate of fluvially-deposited organic carbon during transient floodplain storage. Earth and Planetary Science Letters, 2021, 561, 116822.	4.4	23
211	Event-dominated transport, provenance, and burial of organic carbon in the Japan Trench. Earth and Planetary Science Letters, 2021, 563, 116870.	4.4	23
212	Plant Wax nâ€Alkane and nâ€Alkanoic Acid Signatures Overprinted by Microbial Contributions and Old Carbon in Meromictic Lake Sediments. Geophysical Research Letters, 2018, 45, 1049-1057.	4.0	22
213	Radiocarbon Age Offsets Between Two Surface Dwelling Planktonic Foraminifera Species During Abrupt Climate Events in the SW Iberian Margin. Paleoceanography and Paleoclimatology, 2019, 34, 63-78.	2.9	22
214	Preferential export of permafrost-derived organic matter as retrogressive thaw slumping intensifies. Environmental Research Letters, 2021, 16, 054059.	5.2	22
215	CASCADE â€“ The Circum-Arctic Sediment CArbon DatabasE. Earth System Science Data, 2021, 13, 2561-2572.	9.9	22
216	Deconvolving the Fate of Carbon in Coastal Sediments. Geophysical Research Letters, 2018, 45, 4134-4142.	4.0	21

#	Article	IF	Citations
217	Permafrost Carbon and CO2 Pathways Differ at Contrasting Coastal Erosion Sites in the Canadian Arctic. Frontiers in Earth Science, 2021, 9, .	1.8	21
218	The impact of abrupt deglacial climate variability on productivity and upwelling on the southwestern Iberian margin. Quaternary Science Reviews, 2020, 230, 106139.	3.0	21
219	Multivariate Statistical and Multiproxy Constraints on Earthquakeâ€Triggered Sediment Remobilization Processes in the Central Japan Trench. Geochemistry, Geophysics, Geosystems, 2020, 21, e2019GC008861.	2.5	21
220	Differentiation of German Tertiary brown coal lithotypes (â€˜amorphousâ€™ and â€˜woodyâ€™ kerogens) using ruthenium tetroxide oxidation and pyrolysis-g.c.-m.s.. Fuel, 1992, 71, 31-36.	6.4	20
221	Radiocarbon Dating of Alkenones from Marine Sediments: II. Assessment of Carbon Process Blanks. Radiocarbon, 2005, 47, 413-424.	1.8	20
222	Radiocarbon constraint on relict organic carbon contributions to Ross Sea sediments. Geochemistry, Geophysics, Geosystems, 2006, 7, n/a-n/a.	2.5	20
223	Comparative¹⁴C and OSL dating of loess-paleosol sequences to evaluate post-depositional contamination ofn-alkane biomarkers. Quaternary Research, 2017, 87, 180-189.	1.7	20
224	Improved Method for Isolation and Purification of Underivatized Amino Acids for Radiocarbon Analysis. Analytical Chemistry, 2018, 90, 12035-12041.	6.5	20
225	Dimensions of Radiocarbon Variability within Sedimentary Organic Matter. Radiocarbon, 2018, 60, 775-790.	1.8	20
226	Temporal constraints on lateral organic matter transport along a coastal mud belt. Organic Geochemistry, 2019, 128, 86-93.	1.8	20
227	(In)coherent multiproxy signals in marine sediments: Implications for high-resolution paleoclimate reconstruction. Earth and Planetary Science Letters, 2019, 515, 38-46.	4.4	20
228	Island-wide variation in provenance of riverine sedimentary organic carbon: A case study from Taiwan. Earth and Planetary Science Letters, 2020, 539, 116238.	4.4	20
229	Contrasting fates of terrestrial organic carbon pools in marginal sea sediments. Geochimica Et Cosmochimica Acta, 2021, 309, 16-30.	3.9	20
230	An unshakable carbon budget for the Himalaya. Nature Geoscience, 2021, 14, 745-750.	12.9	20
231	Structural relationships in protokerogens and other geopolymers from oxic and anoxic sediments. Organic Geochemistry, 1984, 6, 279-286.	1.8	19
232	Radiocarbon-Based Assessment of Fossil Fuel-Derived Contaminant Associations in Sediments. Environmental Science & Technology, 2008, 42, 5428-5434.	10.0	19
233	Spatial and temporal variability in coccolithophore abundance and distribution in the NW Iberian coastal upwelling system. Biogeosciences, 2018, 15, 245-262.	3.3	19
234	Efficient sequestration of terrigenous organic carbon in the New Britain Trench. Chemical Geology, 2020, 533, 119446.	3.3	19

#	Article	IF	Citations
235	Transformations in Organic Sulfur Speciation During Maturation of Monterey Shale: Constraints from Laboratory Experiments. ACS Symposium Series, 1995, , 138-166.	0.5	18
236	Protocol for the Characterization of Oceanic Particles via Flow Cytometric Sorting and Direct Temperature-Resolved Mass Spectrometry. Analytical Chemistry, 1999, 71, 2003-2013.	6.5	18
237	Rapid analysis of13C in plant-waxn-alkanes for reconstruction of terrestrial vegetation signals from aquatic sediments. Geochemistry, Geophysics, Geosystems, 2004, 5, n/a-n/a.	2.5	18
238	Radiocarbon and 230Th data reveal rapid redistribution and temporal changes in sediment focussing at a North Atlantic drift. Earth and Planetary Science Letters, 2011, 301, 373-381.	4.4	18
239	Organic Matter in the Contemporary Ocean. , 2014, , 151-189.		18
240	Nearshore Zone Dynamics Determine Pathway of Organic Carbon From Eroding Permafrost Coasts. Geophysical Research Letters, 2020, 47, e2020GL088561.	4.0	18
241	A depositional history of particulate organic carbon in a floodplain lake from the lower Obâ€™ River, Siberia. Geochimica Et Cosmochimica Acta, 2011, 75, 4796-4815.	3.9	17
242	¹⁴C Variation of Dissolved Lignin in Arctic River Systems. ACS Earth and Space Chemistry, 2017, 1, 334-344.	2.7	17
243	Midlatitude Temperature Variations in the Oligocene to Early Miocene. Paleoceanography and Paleoclimatology, 2019, 34, 1328-1343.	2.9	17
244	¹⁴C Blank Assessment in Small-Scale Compound-Specific Radiocarbon Analysis of Lipid Biomarkers and Lignin Phenols. Radiocarbon, 2020, 62, 207-218.	1.8	17
245	Persistence of old soil carbon under changing climate: The role of mineral-organic matter interactions. Chemical Geology, 2022, 587, 120629.	3.3	17
246	Invariant chlorine isotopic signatures during microbial PCB reductive dechlorination. Environmental Pollution, 2004, 128, 445-448.	7.5	16
247	Molecular and isotopic constraints on the sources of suspended particulate organic carbon on the northwestern Atlantic margin. Deep-Sea Research Part I: Oceanographic Research Papers, 2009, 56, 1284-1297.	1.4	16
248	A laboratory experiment on the behaviour of soil-derived core and intact polar GDGTs in aquatic environments. Biogeosciences, 2015, 12, 933-943.	3.3	16
249	Macromolecular composition of terrestrial and marine organic matter in sediments across the East Siberian Arctic Shelf. Cryosphere, 2016, 10, 2485-2500.	3.9	16
250	On the geological and scientific legacy of petrogenic organic carbon. Numerische Mathematik, 2018, 318, 861-881.	1.4	16
251	A 250 ka leaf-wax ÎD record from a loess section in Darai Kalon, Southern Tajikistan. Quaternary Science Reviews, 2019, 208, 118-128.	3.0	16
252	Organic Matter in the Contemporary Ocean. , 2003, , 145-180.		15

#	Article	IF	Citations
253	Source(s) and cycling of the nonhydrolyzable organic fraction of oceanic particles. Geochimica Et Cosmochimica Acta, 2006, 70, 5162-5168.	3.9	15
254	A novel approach for construction of radiocarbon-based chronologies for speleothems. Quaternary Geochronology, 2016, 35, 54-66.	1.4	15
255	Long-chain diols in rivers: distribution and potential biological sources. Biogeosciences, 2018, 15, 4147-4161.	3.3	15
256	Gulf Stream intensification after the early Pliocene shoaling of the Central American Seaway. Earth and Planetary Science Letters, 2019, 520, 268-278.	4.4	15
257	Terrestrial Biomolecular Burial Efficiencies on Continental Margins. Journal of Geophysical Research G: Biogeosciences, 2020, 125, e2019JG005520.	3.0	15
258	Speciation of the Organic Sulfur Forms in a Recent Sediment and Type I and II-S Kerogens by High-Pressure Temperature-Programmed Reduction. Energy & Fuels, 1997, 11, 532-538.	5.1	14
259	Grain Size Associations of Branched Tetraether Lipids in Soils and Riverbank Sediments: Influence of Hydrodynamic Sorting Processes. Frontiers in Earth Science, 2017, 5, .	1.8	14
260	Molecular-level variations in particulate organic matter subclasses along the Mid-Atlantic Bight. Marine Chemistry, 1999, 67, 103-122.	2.3	13
261	Incorporation of 13C-Labeled Coniferyl Alcohol into Developing Ginkgo biloba L. Lignin Revealed by Analytical Pyrolysis and CuO Oxidation in Combination with Isotope Ratio Monitoring-Gas Chromatography-Mass Spectrometry. Holzforschung, 2000, 54, 39-54.	1.9	13
262	Radiocarbon Dating of Alkenones from Marine Sediments: III. Influence of Solvent Extraction Procedures on ¹⁴C Measurements of Foraminifera. Radiocarbon, 2005, 47, 425-432.	1.8	13
263	Steroidal estrogen sources in a sewage-impacted coastal ocean. Environmental Sciences: Processes and Impacts, 2016, 18, 981-991.	3.5	13
264	Molecular signatures of dissolved organic matter in a tropical karst system. Organic Geochemistry, 2017, 113, 141-149.	1.8	13
265	Constraining Instantaneous Fluxes and Integrated Compositions of Fluvially Discharged Organic Matter. Geochemistry, Geophysics, Geosystems, 2018, 19, 2453-2462.	2.5	13
266	Liquid Chromatographic Isolation of Individual Amino Acids Extracted From Sediments for Radiocarbon Analysis. Frontiers in Marine Science, 2020, 7, .	2.5	13
267	Particulate Organic Matter Dynamics in a Permafrost Headwater Stream and the Kolyma River Mainstem. Journal of Geophysical Research G: Biogeosciences, 2020, 125, e2019JG005511.	3.0	13
268	Arctic Deltaic Lake Sediments As Recorders of Fluvial Organic Matter Deposition. Frontiers in Earth Science, 2016, 4, .	1.8	12
269	Source forensics of n-alkanes and n-fatty acids in urban aerosols using compound specific radiocarbon/stable carbon isotopic composition. Environmental Research Letters, 2020, 15, 074007.	5.2	12
270	Seasonal variability in particulate organic carbon degradation in the Kolyma River, Siberia. Environmental Research Letters, 2022, 17, 034007.	5.2	12

#	Article	IF	Citations
271	Unusual C35 to C38 alkenones in mid-Holocene sediments from a restricted estuary (Charlotte Harbor,) Tj ETQq1 1 0.784314 rgBT /Ove	1.8	11
272	Decoupled sedimentary records of combustion: Causes and implications. Geophysical Research Letters, 2016, 43, 5098-5108.	4.0	11
273	Isotopic variance among plant lipid homologues correlates with biodiversity patterns of their source communities. PLoS ONE, 2019, 14, e0212211.	2.5	11
274	Climate variability and sea level change during the Holocene: Insights from an inorganic multi-proxy approach in the SE Brazilian continental shelf. Quaternary International, 2019, 508, 125-141.	1.5	11
275	Controls on the age of plant waxes in marine sediments â€“ A global synthesis. Organic Geochemistry, 2021, 157, 104259.	1.8	11
276	Direct temperature-resolved mass spectrometry as a technique for the semi-quantitative analysis of marine particulate organic matter. Journal of Analytical and Applied Pyrolysis, 2000, 53, 19-34.	5.5	10
277	Tempestuous transport. Nature Geoscience, 2008, 1, 727-728.	12.9	10
278	Investigating the influence of regional climate and oceanography on marine radiocarbon reservoir ages in southwest New Zealand. Estuarine, Coastal and Shelf Science, 2015, 167, 526-539.	2.1	10
279	A New Zealand perspective on centennial-scale Southern Hemisphere westerly wind shifts during the last two millennia. Quaternary Science Reviews, 2017, 172, 32-43.	3.0	10
280	14C characteristics of dissolved lignin along a forest soil profile. Soil Biology and Biochemistry, 2019, 135, 407-410.	8.8	10
281	Lateral Particle Supply as a Key Vector in the Oceanic Carbon Cycle. Global Biogeochemical Cycles, 2020, 34, e2020GB006544.	4.9	10
282	Alkanes from plants of the genus achillea. Journal of the Serbian Chemical Society, 1999, 64, 443-446.	0.8	10
283	Fluvial Organic Carbon Composition Regulated by Seasonal Variability in Lowland River Migration and Water Discharge. Geophysical Research Letters, 2021, 48, .	4.0	10
284	Relationships between carbon isotopic composition and mode of binding of natural organic matter in selected marine sediments. Organic Geochemistry, 2007, 38, 1824-1837.	1.8	9
285	Petrogenic organic carbon retention in terrestrial basins: A case study from perialpine Lake Constance. Chemical Geology, 2019, 503, 52-60.	3.3	9
286	Influence of Sediment Resuspension on the Biological Pump of the Southwestern East Sea (Japan Sea). Frontiers in Earth Science, 2020, 8, .	1.8	9
287	Downstream Evolution of Particulate Organic Matter Composition From Permafrost Thaw Slumps. Frontiers in Earth Science, 2021, 9, .	1.8	9
288	Microbial lipid signatures in Arctic deltaic sediments â€“ Insights into methane cycling and climate variability. Organic Geochemistry, 2021, 157, 104242.	1.8	9

#	Article	IF	Citations
289	Influence of Sulphur Cross-linking on the Molecular-Size Distribution of Sulphur-Rich Macromolecules in Bitumen. ACS Symposium Series, 1995, , 80-92.	0.5	8
290	Innovative methods for determining alkenone unsaturation indices. Marine Chemistry, 2003, 83, 5-22.	2.3	8
291	Highâ€sensitivity measurement of diverse vascular plantâ€derived biomarkers in highâ€altitude ice cores. Geophysical Research Letters, 2009, 36, .	4.0	8
292	Alkenones as tracers of surface ocean temperature and biological pump processes on the Northwest Atlantic margin. Deep-Sea Research Part I: Oceanographic Research Papers, 2014, 83, 115-123.	1.4	8
293	Persistently high efficiencies of terrestrial organic carbon burial in Chinese marginal sea sediments over the last 200Âyears. Chemical Geology, 2022, 606, 120999.	3.3	8
294	Paleolimnological studies of annually-laminated sediments in Loe Pool, Cornwall, U.K.. Hydrobiologia, 1983, 103, 185-191.	2.0	7
295	Alkenone biomakers gain recognition as molecular paleoceanographic proxies. Eos, 2000, 81, 253.	0.1	7
296	Multi-Substrate Radiocarbon Data Constrain Detrital and Reservoir Effects in Holocene Sediments of the Great Salt Lake, Utah. Radiocarbon, 2019, 61, 905-926.	1.8	6
297	Molecular Tracing of Riverine Soil Organic Matter From the Central Himalaya. Geophysical Research Letters, 2020, 47, e2020GL087403.	4.0	6
298	Biological and physical controls on the flux and characteristics of sinking particles on the <scp>N</scp>orthwest <scp>A</scp>tlantic margin. Journal of Geophysical Research: Oceans, 2017, 122, 4539-4553.	2.6	6
299	The influence of lateral transport on sedimentary alkenone paleoproxy signals. Biogeosciences, 2022, 19, 613-627.	3.3	6
300	Vegetal Undercurrentsâ€"Obscured Riverine Dynamics of Plant Debris. Journal of Geophysical Research G: Biogeosciences, 2022, 127, .	3.0	6
301	Multiproxy records of temperature, precipitation and vegetation on the central Chinese Loess Plateau over the past 200,000 years. Quaternary Science Reviews, 2022, 288, 107579.	3.0	6
302	Prominent bacterial heterotrophy and sources of ¹³C-depleted fatty acids to the interior Canada Basin. Biogeosciences, 2013, 10, 7065-7080.	3.3	5
303	Grand challenges in biogeoscience. Frontiers in Earth Science, 2015, 3, .	1.8	5
304	Compound-Specific Radiocarbon Measurements. , 2019, , 235-244.		5
305	Organic Matter Compositions and Loadings in River Sediments From Humid Tropical Volcanic Luzon Island of the Philippines. Journal of Geophysical Research G: Biogeosciences, 2021, 126, e2020JG006192.	3.0	5
306	Detrital neodymium and (radio)carbon as complementary sedimentary bedfellows? The Western Arctic Ocean as a testbed. Geochimica Et Cosmochimica Acta, 2021, 315, 101-126.	3.9	5

#	Article	IF	Citations
307	Abrupt intrinsic and extrinsic responses of southwestern Iberian vegetation to millennialâ€scale variability over the past 28 ka. Journal of Quaternary Science, 2022, 37, 420-440.	2.1	5
308	Molecular and isotopic insights into particulate organic carbon sources and dynamics in Jordan Basin, Gulf of Maine. Continental Shelf Research, 2013, 68, 15-22.	1.8	4
309	The evolution of carbon signatures carried by the Ganges-Brahmaputra river system: a source-to-sink perspective. , 0, , 353-372.		4
310	Lithogenic Particle Transport Trajectories on the Northwest Atlantic Margin. Journal of Geophysical Research: Oceans, 2021, 126, .	2.6	4
311	Differentiating the Causes of Aged Organic Carbon in Marine Sediments. Geophysical Research Letters, 2022, 49, .	4.0	4
312	Projections for Future Radiocarbon Content in Dissolved Inorganic Carbon in Hardwater Lakes: A Retrospective Approach. Radiocarbon, 2018, 60, 791-800.	1.8	3
313	Biomarker constraints on Mediterranean climate and ecosystem transitions during the Early-Middle Miocene. Palaeogeography, Palaeoclimatology, Palaeoecology, 2021, 562, 110092.	2.3	3
314	Recent Warming Fuels Increased Organic Carbon Export From Arctic Permafrost. AGU Advances, 2021, 2, e2021AV000396.	5.4	3
315	Distribution and Structure of Hydrocarbons and Heterocyclic Sulfur Compounds Released from Four Kerogens of Ordovician Age by Means of Flash Pyrolysis. , 1992, , 267-278.		3
316	A Coupled Molecular Isotopic Approach to Trace Sources of Organic Carbon Preserved in the Sedimentary Record. Mineralogical Magazine, 1998, 62A, 413-414.	1.4	3
317	Sedimentary Hydrodynamic Processes Under Low-Oxygen Conditions: Implications for Past, Present, and Future Oceans. Frontiers in Earth Science, 2022, 10, .	1.8	3
318	Isotopic evidence for sources of dissolved carbon and the role of organic matter respiration in the Fraser River basin, Canada. Biogeochemistry, 0, , .	3.5	3
319	Response to Comment on â€œThe West Falmouth Oil Spill after Thirty Years:â€‰ The Persistence of Petroleum Hydrocarbons in Marsh Sedimentsâ€• Environmental Science & Technology, 2003, 37, 2021-2021.	10.0	2
320	Carbon isotopic (¹³C and ¹⁴C) composition of synthetic estrogens and progestogens. Rapid Communications in Mass Spectrometry, 2012, 26, 2619-2626.	1.5	2
321	Influence of Hydraulic Connectivity on Carbon Burial Efficiency in Mackenzie Delta Lake Sediments. Journal of Geophysical Research G: Biogeosciences, 2021, 126, e2020JG006054.	3.0	2
322	Microbial transformations of organic matter in black shales and implications for global biogeochemical cycles. , 2005, , 157-170.		2
323	Dischargeâ€Modulated Soil Organic Carbon Export From Temperate Mountainous Headwater Streams. Journal of Geophysical Research G: Biogeosciences, 2022, 127, .	3.0	2
324	Towards Organic Carbon Isotope Records from Stalagmites: Coupled Î´13C and 14C Analysis Using Wet Chemical Oxidation. Radiocarbon, 2019, 61, 749-764.	1.8	1

#	Article	IF	Citations
325	Single Compound Radiocarbon Measurements. , 2001, , 2786-2795.		0
326	Citation for presentation of the 2014 C.C. Patterson Award to Christopher M. Reddy. Geochimica Et Cosmochimica Acta, 2016, 172, 458-460.	3.9	0
327	Organic Matter Characterisation along a River Delta to Shelf Transect in Eastern Siberia. , 2019, , .		0
328	Single Compound Radiocarbon Measurements. , 2001, , 419-427.		0