

Daniel M Sigman

List of Publications by Year in descending order

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197
papers

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207
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207
docs citations

207
times ranked

16051
citing authors

#	ARTICLE	IF	CITATIONS
1	Southward Migration of the Intertropical Convergence Zone Through the Holocene. <i>Science</i> , 2001, 293, 1304-1308.	12.6	1,852
2	A Bacterial Method for the Nitrogen Isotopic Analysis of Nitrate in Seawater and Freshwater. <i>Analytical Chemistry</i> , 2001, 73, 4145-4153.	6.5	1,493
3	Measurement of the Oxygen Isotopic Composition of Nitrate in Seawater and Freshwater Using the Denitrifier Method. <i>Analytical Chemistry</i> , 2002, 74, 4905-4912.	6.5	1,236
4	Glacial/interglacial variations in atmospheric carbon dioxide. <i>Nature</i> , 2000, 407, 859-869.	27.8	1,164
5	Climate and the Collapse of Maya Civilization. <i>Science</i> , 2003, 299, 1731-1735.	12.6	807
6	Influence of the intertropical convergence zone on the East Asian monsoon. <i>Nature</i> , 2007, 445, 74-77.	27.8	781
7	The polar ocean and glacial cycles in atmospheric CO ₂ concentration. <i>Nature</i> , 2010, 466, 47-55.	27.8	625
8	Spatial coupling of nitrogen inputs and losses in the ocean. <i>Nature</i> , 2007, 445, 163-167.	27.8	618
9	Dinitrogen fixation in the world's oceans. <i>Biogeochemistry</i> , 2002, 57, 47-98.	3.5	586
10	Contribution of Southern Ocean surface-water stratification to low atmospheric CO ₂ concentrations during the last glacial period. <i>Nature</i> , 1997, 389, 929-935.	27.8	547
11	Natural abundance-level measurement of the nitrogen isotopic composition of oceanic nitrate: an adaptation of the ammonia diffusion method. <i>Marine Chemistry</i> , 1997, 57, 227-242.	2.3	412
12	The nitrogen isotope biogeochemistry of sinking particles from the margin of the Eastern North Pacific. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 1999, 46, 655-679.	1.4	392
13	Spatial coupling of nitrogen inputs and losses in the ocean. <i>Nature</i> , 2007, 445, 163-167.	27.8	379
14	The bioinorganic chemistry of the ancient ocean: the co-evolution of cyanobacterial metal requirements and biogeochemical cycles at the Archean-Proterozoic boundary?. <i>Inorganica Chimica Acta</i> , 2003, 356, 308-318.	2.4	372
15	Deglacial changes in ocean circulation from an extended radiocarbon calibration. <i>Nature</i> , 1998, 391, 65-68.	27.8	360
16	Nitrogen and oxygen isotope fractionation during dissimilatory nitrate reduction by denitrifying bacteria. <i>Limnology and Oceanography</i> , 2008, 53, 2533-2545.	3.1	360
17	Iron Fertilization of the Subantarctic Ocean During the Last Ice Age. <i>Science</i> , 2014, 343, 1347-1350.	12.6	350
18	Coupled nitrogen and oxygen isotope fractionation of nitrate during assimilation by cultures of marine phytoplankton. <i>Limnology and Oceanography</i> , 2004, 49, 1763-1773.	3.1	341

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19	North Pacific seasonality and the glaciation of North America 2.7 million years ago. <i>Nature</i> , 2005, 433, 821-825.	27.8	336
20	Measuring $\delta^{15}\text{N}$ in marine, estuarine and fresh waters: An adaptation of the ammonia diffusion method for samples with low ammonium concentrations. <i>Marine Chemistry</i> , 1998, 60, 235-243.	2.3	325
21	Coupled nitrogen and oxygen isotope measurements of nitrate along the eastern North Pacific margin. <i>Global Biogeochemical Cycles</i> , 2005, 19, n/a-n/a.	4.9	311
22	Links between tropical rainfall and North Atlantic climate during the last glacial period. <i>Nature Geoscience</i> , 2013, 6, 213-217.	12.9	303
23	Southern Ocean dust-climate coupling over the past four million years. <i>Nature</i> , 2011, 476, 312-315.	27.8	298
24	A switch from Si(OH)_4 to NO_3^- depletion in the glacial Southern Ocean. <i>Geophysical Research Letters</i> , 2002, 29, 5-1.	4.0	294
25	The $\delta^{15}\text{N}$ of nitrate in the southern ocean: Consumption of nitrate in surface waters. <i>Global Biogeochemical Cycles</i> , 1999, 13, 1149-1166.	4.9	285
26	Isotopic evidence for large gaseous nitrogen losses from tropical rainforests. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 8745-8750.	7.1	282
27	Linking Diversity and Stable Isotope Fractionation in Ammonia-Oxidizing Bacteria. <i>Geomicrobiology Journal</i> , 2003, 20, 335-353.	2.0	279
28	CO_2 effects on taxonomic composition and nutrient utilization in an Equatorial Pacific phytoplankton assemblage. <i>Marine Ecology - Progress Series</i> , 2002, 236, 37-43.	1.9	270
29	N isotopic composition of dissolved organic nitrogen and nitrate at the Bermuda Atlantic Time-series Study site. <i>Global Biogeochemical Cycles</i> , 2005, 19, .	4.9	266
30	Removal of nitrite with sulfamic acid for nitrate N and O isotope analysis with the denitrifier method. <i>Rapid Communications in Mass Spectrometry</i> , 2009, 23, 3753-3762.	1.5	263
31	An abrupt wind shift in western Europe at the onset of the Younger Dryas cold period. <i>Nature Geoscience</i> , 2008, 1, 520-523.	12.9	259
32	The GEOTRACES Intermediate Data Product 2017. <i>Chemical Geology</i> , 2018, 493, 210-223.	3.3	257
33	The $\delta^{15}\text{N}$ of nitrate in the Southern Ocean: Nitrogen cycling and circulation in the ocean interior. <i>Journal of Geophysical Research</i> , 2000, 105, 19599-19614.	3.3	247
34	Onset of permanent stratification in the subarctic Pacific Ocean. <i>Nature</i> , 1999, 401, 779-782.	27.8	239
35	A climate-driven switch in plant nitrogen acquisition within tropical forest communities. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 8902-8906.	7.1	234
36	Triple Oxygen Isotope Analysis of Nitrate Using the Denitrifier Method and Thermal Decomposition of N_2O . <i>Analytical Chemistry</i> , 2007, 79, 599-607.	6.5	226

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37	Polar ocean stratification in a cold climate. <i>Nature</i> , 2004, 428, 59-63.	27.8	219
38	The isotopic composition of diatom-bound nitrogen in Southern Ocean sediments. <i>Paleoceanography</i> , 1999, 14, 118-134.	3.0	217
39	Isotopic evidence for source changes of nitrate in rain at Bermuda. <i>Journal of Geophysical Research</i> , 2003, 108, n/a-n/a.	3.3	214
40	Carbon dioxide release from the North Pacific abyss during the last deglaciation. <i>Nature</i> , 2007, 449, 890-893.	27.8	201
41	Nitrogen and oxygen isotopic constraints on the origin of atmospheric nitrate in coastal Antarctica. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 1925-1945.	4.9	196
42	Isotopic constraints on glacial/interglacial changes in the oceanic nitrogen budget. <i>Global Biogeochemical Cycles</i> , 2004, 18, n/a-n/a.	4.9	194
43	Two Modes of Change in Southern Ocean Productivity Over the Past Million Years. <i>Science</i> , 2013, 339, 1419-1423.	12.6	194
44	The dual isotopes of deep nitrate as a constraint on the cycle and budget of oceanic fixed nitrogen. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2009, 56, 1419-1439.	1.4	177
45	Assimilation of upwelled nitrate by small eukaryotes in the Sargasso Sea. <i>Nature Geoscience</i> , 2011, 4, 717-722.	12.9	173
46	Global Nitrogen Cycle: Critical Enzymes, Organisms, and Processes for Nitrogen Budgets and Dynamics. <i>Chemical Reviews</i> , 2020, 120, 5308-5351.	47.7	167
47	N and O isotope effects during nitrate assimilation by unicellular prokaryotic and eukaryotic plankton cultures. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 1030-1040.	3.9	165
48	Influence of ocean heat transport on the climate of the Last Glacial Maximum. <i>Nature</i> , 1997, 385, 695-699.	27.8	164
49	Coupling the $^{15}\text{N}/^{14}\text{N}$ and $^{18}\text{O}/^{16}\text{O}$ of nitrate as a constraint on benthic nitrogen cycling. <i>Marine Chemistry</i> , 2004, 88, 1-20.	2.3	158
50	Nitrogen isotope fractionation by alternative nitrogenases and past ocean anoxia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 4782-4787.	7.1	158
51	Glacial/Interglacial Changes in Subarctic North Pacific Stratification. <i>Science</i> , 2005, 308, 1003-1006.	12.6	157
52	Glacial/interglacial variations in production and nitrogen fixation in the Cariaco Basin during the last 580 kyr. <i>Paleoceanography</i> , 1998, 13, 427-432.	3.0	148
53	Foraminiferal Isotope Evidence of Reduced Nitrogen Fixation in the Ice Age Atlantic Ocean. <i>Science</i> , 2009, 323, 244-248.	12.6	147
54	Distinguishing between water column and sedimentary denitrification in the Santa Barbara Basin using the stable isotopes of nitrate. <i>Geochemistry, Geophysics, Geosystems</i> , 2003, 4, n/a-n/a.	2.5	146

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55	Reduced Interannual Rainfall Variability in East Africa During the Last Ice Age. <i>Science</i> , 2011, 333, 743-747.	12.6	146
56	Updates to instrumentation and protocols for isotopic analysis of nitrate by the denitrifier method. <i>Rapid Communications in Mass Spectrometry</i> , 2016, 30, 1365-1383.	1.5	145
57	Stable isotope constraints on the nitrogen cycle of the Mediterranean Sea water column. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2002, 49, 1609-1621.	1.4	134
58	Nitrogen isotope dynamics of the Cariaco Basin, Venezuela. <i>Global Biogeochemical Cycles</i> , 2004, 18, n/a-n/a.	4.9	132
59	Subarctic Pacific evidence for a glacial deepening of the oceanic respired carbon pool. <i>Earth and Planetary Science Letters</i> , 2009, 277, 156-165.	4.4	129
60	Reduced isotope fractionation by denitrification under conditions relevant to the ocean. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 92, 243-259.	3.9	125
61	The distribution of nitrate $^{15}\text{N}/^{14}\text{N}$ in marine sediments and the impact of benthic nitrogen loss on the isotopic composition of oceanic nitrate. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 5384-5404.	3.9	123
62	Seasonal variations in N and O isotopes of nitrate in snow at Summit, Greenland: Implications for the study of nitrate in snow and ice cores. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	120
63	Carbon dioxide effects of Antarctic stratification, North Atlantic Intermediate Water formation, and subantarctic nutrient drawdown during the last ice age: Diagnosis and synthesis in a geochemical box model. <i>Global Biogeochemical Cycles</i> , 2010, 24, .	4.9	120
64	Evidence from diatom-bound nitrogen isotopes for subarctic Pacific stratification during the last ice age and a link to North Pacific denitrification changes. <i>Paleoceanography</i> , 2007, 22, n/a-n/a.	3.0	119
65	Sensitivity of $\delta^{15}\text{N}$ of nitrate, surface suspended and deep sinking particulate nitrogen to seasonal nitrate depletion in the Southern Ocean. <i>Global Biogeochemical Cycles</i> , 2003, 17, n/a-n/a.	4.9	118
66	Coupled nitrification-denitrification in sediment of the eastern Bering Sea shelf leads to ^{15}N enrichment of fixed N in shelf waters. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	116
67	Revisiting nutrient utilization in the glacial Antarctic: Evidence from a new method for diatom-bound N isotopic analysis. <i>Paleoceanography</i> , 2004, 19, n/a-n/a.	3.0	115
68	Nitrogen isotopic variations in the Gulf of California since the Last Deglaciation: Response to global climate change. <i>Paleoceanography</i> , 1999, 14, 397-409.	3.0	114
69	THE MECHANISM OF ISOTOPE FRACTIONATION DURING ALGAL NITRATE ASSIMILATION AS ILLUMINATED BY THE $^{15}\text{N}/^{14}\text{N}$ OF INTRACELLULAR NITRATE. <i>Journal of Phycology</i> , 2004, 40, 517-522.	2.3	113
70	Nitrate isotopic composition between Bermuda and Puerto Rico: Implications for N_2 fixation in the Atlantic Ocean. <i>Global Biogeochemical Cycles</i> , 2008, 22, .	4.9	113
71	Diatom-bound $^{15}\text{N}/^{14}\text{N}$: New support for enhanced nutrient consumption in the ice age subantarctic. <i>Paleoceanography</i> , 2005, 20, n/a-n/a.	3.0	110
72	21st-century rise in anthropogenic nitrogen deposition on a remote coral reef. <i>Science</i> , 2017, 356, 749-752.	12.6	105

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73	The calcite lysocline as a constraint on glacial/interglacial low-latitude production changes. <i>Global Biogeochemical Cycles</i> , 1998, 12, 409-427.	4.9	103
74	Nitrogen losses in anoxic marine sediments driven by Thioploca "anammox bacterial consortia. <i>Nature</i> , 2013, 500, 194-198.	27.8	96
75	Sustained losses of bioavailable nitrogen from montane tropical forests. <i>Nature Geoscience</i> , 2012, 5, 123-126.	12.9	92
76	Antarctic Zone nutrient conditions during the last two glacial cycles. <i>Paleoceanography</i> , 2015, 30, 845-862.	3.0	88
77	Origin of the deep Bering Sea nitrate deficit: Constraints from the nitrogen and oxygen isotopic composition of water column nitrate and benthic nitrate fluxes. <i>Global Biogeochemical Cycles</i> , 2005, 19, n/a-n/a.	4.9	87
78	Nitrogen isotopic evidence for a poleward decrease in surface nitrate within the ice age Antarctic. <i>Quaternary Science Reviews</i> , 2008, 27, 1076-1090.	3.0	86
79	Glacial/interglacial changes in nutrient supply and stratification in the western subarctic North Pacific since the penultimate glacial maximum. <i>Quaternary Science Reviews</i> , 2010, 29, 2579-2590.	3.0	86
80	Coupled nitrate nitrogen and oxygen isotopes and organic matter remineralization in the Southern and Pacific Oceans. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 4781-4794.	2.6	84
81	Consistent relationship between global climate and surface nitrate utilization in the western subarctic Pacific throughout the last 500 ka. <i>Paleoceanography</i> , 2008, 23, .	3.0	78
82	Eukaryotic Assimilatory Nitrate Reductase Fractionates N and O Isotopes with a Ratio near Unity. <i>Environmental Science & Technology</i> , 2012, 46, 5727-5735.	10.0	77
83	Changes in North Atlantic nitrogen fixation controlled by ocean circulation. <i>Nature</i> , 2013, 501, 200-203.	27.8	75
84	Deglacial pulses of deep-ocean silicate into the subtropical North Atlantic Ocean. <i>Nature</i> , 2013, 495, 495-498.	27.8	75
85	Interbasin isotopic correspondence between upper-ocean bulk DON and subsurface nitrate and its implications for marine nitrogen cycling. <i>Global Biogeochemical Cycles</i> , 2011, 25, n/a-n/a.	4.9	74
86	Marine biogenic source of atmospheric organic nitrogen in the subtropical North Atlantic. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 925-930.	7.1	71
87	Nitrogen isotope constraints on subantarctic biogeochemistry. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	70
88	A method for nitrite removal in nitrate N and O isotope analyses. <i>Limnology and Oceanography: Methods</i> , 2006, 4, 205-212.	2.0	70
89	A pervasive link between Antarctic ice core and subarctic Pacific sediment records over the past 800kyrs. <i>Quaternary Science Reviews</i> , 2010, 29, 206-212.	3.0	68
90	Subsurface tropical Pacific nitrogen isotopic composition of nitrate: Biogeochemical signals and their transport. <i>Global Biogeochemical Cycles</i> , 2012, 26, .	4.9	68

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91	Molecular characterization of water soluble organic nitrogen in marine rainwater by ultra-high resolution electrospray ionization mass spectrometry. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 3557-3571.	4.9	67
92	Isotopic composition of skeleton-bound organic nitrogen in reef-building symbiotic corals: A new method and proxy evaluation at Bermuda. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 148, 179-190.	3.9	67
93	Sinking organic matter spreads the nitrogen isotope signal of pelagic denitrification in the North Pacific. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	66
94	The flux and isotopic composition of reduced and total nitrogen in Bermuda rain. <i>Marine Chemistry</i> , 2010, 120, 83-89.	2.3	66
95	Photosymbiosis and the expansion of shallow-water corals. <i>Science Advances</i> , 2016, 2, e1601122.	10.3	65
96	Denitrification in anoxic sediments supported by biological nitrate transport. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 7180-7199.	3.9	63
97	Nitrogen isotopic composition of planktonic foraminifera from the modern ocean and recent sediments. <i>Limnology and Oceanography</i> , 2012, 57, 1011-1024.	3.1	63
98	The effects of secular calcium and magnesium concentration changes on the thermodynamics of seawater acid/base chemistry: Implications for Eocene and Cretaceous ocean carbon chemistry and buffering. <i>Global Biogeochemical Cycles</i> , 2015, 29, 517-533.	4.9	63
99	No iron fertilization in the equatorial Pacific Ocean during the last ice age. <i>Nature</i> , 2016, 529, 519-522.	27.8	63
100	A stagnation event in the deep South Atlantic during the last interglacial period. <i>Science</i> , 2014, 346, 1514-1517.	12.6	62
101	Effect of global ocean temperature change on deep ocean ventilation. <i>Paleoceanography</i> , 2007, 22, .	3.0	59
102	Upper ocean nitrogen fluxes in the Polar Antarctic Zone: Constraints from the nitrogen and oxygen isotopes of nitrate. <i>Geochemistry, Geophysics, Geosystems</i> , 2009, 10, .	2.5	59
103	Isotopic evidence for a marine ammonium source in rainwater at Bermuda. <i>Global Biogeochemical Cycles</i> , 2014, 28, 1066-1080.	4.9	59
104	The residence time of Southern Ocean surface waters and the 100,000-year ice age cycle. <i>Science</i> , 2019, 363, 1080-1084.	12.6	58
105	Deep-sea coral evidence for lower Southern Ocean surface nitrate concentrations during the last ice age. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 3352-3357.	7.1	57
106	Southern Ocean upwelling, Earth's obliquity, and glacial-interglacial atmospheric CO ₂ change. <i>Science</i> , 2020, 370, 1348-1352.	12.6	57
107	Atmospheric deposition of inorganic and organic nitrogen and base cations in Hawaii. <i>Global Biogeochemical Cycles</i> , 2002, 16, 24-1-24-16.	4.9	56
108	Relationship of nitrogen isotope fractionation to phytoplankton size and iron availability during the Southern Ocean Iron Release Experiment (SOIREE). <i>Limnology and Oceanography</i> , 2003, 48, 1058-1068.	3.1	56

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109	Atlantic Dominance of the Meridional Overturning Circulation. <i>Journal of Physical Oceanography</i> , 2008, 38, 435-450.	1.7	55
110	Distinct roles of the Southern Ocean and North Atlantic in the deglacial atmospheric radiocarbon decline. <i>Earth and Planetary Science Letters</i> , 2014, 394, 198-208.	4.4	55
111	Nitrate isotope distributions on the US GEOTRACES North Atlantic cross-basin section: Signals of polar nitrate sources and low latitude nitrogen cycling. <i>Marine Chemistry</i> , 2015, 177, 143-156.	2.3	55
112	Active Pacific meridional overturning circulation (PMOC) during the warm Pliocene. <i>Science Advances</i> , 2017, 3, e1700156.	10.3	55
113	Impact of glacial/interglacial sea level change on the ocean nitrogen cycle. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E6759-E6766.	7.1	55
114	New insights into sea ice nitrogen biogeochemical dynamics from the nitrogen isotopes. <i>Global Biogeochemical Cycles</i> , 2014, 28, 115-130.	4.9	53
115	Nitrogen Isotopes in the Ocean. , 2019, , 263-278.		53
116	Controls on sedimentary nitrogen isotopes along the Chile margin. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2009, 56, 1042-1054.	1.4	52
117	Isotopic composition of rainwater nitrate at Bermuda: The influence of air mass source and chemistry in the marine boundary layer. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 11,304.	3.3	51
118	Poleward decrease in the isotope effect of nitrate assimilation across the Southern Ocean. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	49
119	Spatial distribution and temporal variation of nitrate nitrogen and oxygen isotopes in the upper equatorial Pacific Ocean. <i>Limnology and Oceanography</i> , 2016, 61, 14-31.	3.1	48
120	Isotopic evidence for nitrification in the Antarctic winter mixed layer. <i>Global Biogeochemical Cycles</i> , 2015, 29, 427-445.	4.9	47
121	The Southern Ocean during the ice ages: A review of the Antarctic surface isolation hypothesis, with comparison to the North Pacific. <i>Quaternary Science Reviews</i> , 2021, 254, 106732.	3.0	46
122	The counterintuitive effect of summer-to-fall mixed layer deepening on eukaryotic new production in the Sargasso Sea. <i>Global Biogeochemical Cycles</i> , 2014, 28, 86-102.	4.9	45
123	Recycled iron fuels new production in the eastern equatorial Pacific Ocean. <i>Nature Communications</i> , 2017, 8, 1100.	12.8	43
124	Nitrogen isotope evidence for expanded ocean suboxia in the early Cenozoic. <i>Science</i> , 2019, 364, 386-389.	12.6	43
125	Glacial/interglacial changes in the isotopes of nitrate from the Greenland Ice Sheet Project 2 (GISP2) ice core. <i>Global Biogeochemical Cycles</i> , 2005, 19, n/a-n/a.	4.9	42
126	Shortcomings of the isolated abyssal reservoir model for deglacial radiocarbon changes in the mid-depth Indo-Pacific Ocean. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	40

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127	Increased nutrient supply to the Southern Ocean during the Holocene and its implications for the pre-industrial atmospheric CO ₂ rise. <i>Nature Geoscience</i> , 2018, 11, 756-760.	12.9	40
128	Enhanced stratification and seasonality in the Subarctic Pacific upon Northern Hemisphere Glaciation—New evidence from diatom-bound nitrogen isotopes, alkenones and archaeal tetraethers. <i>Earth and Planetary Science Letters</i> , 2012, 351-352, 84-94.	4.4	39
129	Time-transgressive North Atlantic productivity changes upon Northern Hemisphere glaciation. <i>Paleoceanography</i> , 2013, 28, 740-751.	3.0	39
130	Tropical Dominance of N ₂ Fixation in the North Atlantic Ocean. <i>Global Biogeochemical Cycles</i> , 2017, 31, 1608-1623.	4.9	38
131	Nitrogen isotopic relationship between diatom-bound and bulk organic matter of cultured polar diatoms. <i>Paleoceanography</i> , 2011, 26, .	3.0	37
132	Insights into anthropogenic nitrogen deposition to the North Atlantic investigated using the isotopic composition of aerosol and rainwater nitrate. <i>Geophysical Research Letters</i> , 2013, 40, 5977-5982.	4.0	37
133	On the Properties of the Arctic Halocline and Deep Water Masses of the Canada Basin from Nitrate Isotope Ratios. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 5443-5458.	2.6	37
134	The contributions of nitrate uptake and efflux to isotope fractionation during algal nitrate assimilation. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 132, 391-412.	3.9	36
135	Nitrogen uptake and nitrification in the subarctic North Atlantic Ocean. <i>Limnology and Oceanography</i> , 2018, 63, 1462-1487.	3.1	36
136	Low-nutrient organic matter in the Sargasso Sea thermocline: A hypothesis for its role, identity, and carbon cycle implications. <i>Marine Chemistry</i> , 2018, 207, 108-123.	2.3	36
137	Enzyme-level interconversion of nitrate and nitrite in the fall mixed layer of the Antarctic Ocean. <i>Global Biogeochemical Cycles</i> , 2016, 30, 1069-1085.	4.9	35
138	Isotopic composition of carbonate-bound organic nitrogen in deep-sea scleractinian corals: A new window into past biogeochemical change. <i>Earth and Planetary Science Letters</i> , 2014, 400, 243-250.	4.4	34
139	Vertical decoupling of nitrate assimilation and nitrification in the Sargasso Sea. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2015, 103, 64-72.	1.4	34
140	Influence of open ocean nitrogen supply on the skeletal $\delta^{15}N$ of modern shallow-water scleractinian corals. <i>Earth and Planetary Science Letters</i> , 2016, 441, 125-132.	4.4	34
141	Nitrogen isotopic analysis of carbonate-bound organic matter in modern and fossil fish otoliths. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 224, 200-222.	3.9	34
142	The origin of NO ₃ ⁻ and N ₂ in deep subsurface fracture water of South Africa. <i>Chemical Geology</i> , 2012, 294-295, 51-62.	3.3	33
143	Elevated $^{15}N/^{14}N$ in particulate organic matter, zooplankton, and diatom frustule-bound nitrogen in the ice-covered water column of the Bering Sea eastern shelf. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2014, 109, 100-111.	1.4	33
144	North Atlantic ventilation of $\delta^{13}C$ -southern-sourced-deep water in the glacial ocean. <i>Paleoceanography</i> , 2012, 27, .	3.0	32

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145	Advances in planktonic foraminifer research: New perspectives for paleoceanography. <i>Revue De Micropaleontologie</i> , 2018, 61, 113-138.	0.4	32
146	The proportion of remineralized nitrate on the ice-covered eastern Bering Sea shelf evidenced from the oxygen isotope ratio of nitrate. <i>Global Biogeochemical Cycles</i> , 2013, 27, 962-971.	4.9	30
147	Glacial-to-interglacial changes in nitrate supply and consumption in the subarctic North Pacific from microfossil-bound N isotopes at two trophic levels. <i>Paleoceanography</i> , 2015, 30, 1217-1232.	3.0	30
148	Megacity development and the demise of coastal coral communities: Evidence from coral skeleton $\delta^{15}\text{N}$ records in the Pearl River estuary. <i>Global Change Biology</i> , 2020, 26, 1338-1353.	9.5	30
149	Elevated foraminifera-bound nitrogen isotopic composition during the last ice age in the South China Sea and its global and regional implications. <i>Global Biogeochemical Cycles</i> , 2012, 26, .	4.9	29
150	Natural forcing of the North Atlantic nitrogen cycle in the Anthropocene. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 10606-10611.	7.1	29
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