

# Brian N Popp

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

161 papers	10,078 citations	55 h-index	97 g-index
167 ext. papers	11,495 ext. citations	5.1 avg, IF	6.05 L-index

#	Paper	IF	Citations
161	Inference of young groundwater ages and modern groundwater proportions using chlorofluorocarbon and tritium/helium-3 tracers from West Hawaii Island. <i>Journal of Hydrology</i> , <b>2022</b> , 609, 127755	6	0
160	Isotopic composition of the eastern gray whale epidermis indicates contribution of prey outside Arctic feeding grounds.. <i>Scientific Reports</i> , <b>2022</b> , 12, 7055	4.9	
159	Isotope data from amino acids indicate Darwin's ground sloth was not an herbivore. <i>Scientific Reports</i> , <b>2021</b> , 11, 18944	4.9	1
158	Amino acid $\delta^{15}\text{N}$ and $\delta^{13}\text{C}$ analyses reveal distinct species-specific patterns of trophic plasticity in a marine symbiosis. <i>Limnology and Oceanography</i> , <b>2021</b> , 66, 2033-2050	4.8	4
157	Distinguishing zooplankton fecal pellets as a component of the biological pump using compound-specific isotope analysis of amino acids. <i>Limnology and Oceanography</i> , <b>2021</b> , 66, 2827-2841	4.8	1
156	Large-scale patterns of green turtle trophic ecology in the eastern Pacific Ocean. <i>Ecosphere</i> , <b>2021</b> , 12, e03479	3.1	0
155	Abyssal deposit feeders are secondary consumers of detritus and rely on nutrition derived from microbial communities in their guts. <i>Scientific Reports</i> , <b>2021</b> , 11, 12594	4.9	0
154	Mercury stable isotopes in flying fish as a monitor of photochemical degradation of methylmercury in the Atlantic and Pacific Oceans. <i>Marine Chemistry</i> , <b>2020</b> , 223, 103790	3.7	5
153	Deep zooplankton rely on small particles when particle fluxes are low. <i>Limnology and Oceanography Letters</i> , <b>2020</b> , 5, 410-416	7.9	5
152	Stable isotopes of precipitation and groundwater provide new insight into groundwater recharge and flow in a structurally complex hydrogeologic system: West Hawaii, USA. <i>Hydrogeology Journal</i> , <b>2020</b> , 28, 1191-1207	3.1	7
151	Seasonal dynamics of midwater zooplankton and relation to particle cycling in the North Pacific Subtropical Gyre. <i>Progress in Oceanography</i> , <b>2020</b> , 182, 102266	3.8	8
150	Tracing gestation and lactation in free ranging gray whales using the stable isotopic composition of epidermis layers. <i>PLoS ONE</i> , <b>2020</b> , 15, e0240171	3.7	5
149	Divergent symbiont communities determine the physiology and nutrition of a reef coral across a light-availability gradient. <i>ISME Journal</i> , <b>2020</b> , 14, 945-958	11.9	19
148	Implications for groundwater recharge from stable isotopic composition of precipitation in Hawaii during the 2017-2018 La Niña. <i>Hydrological Processes</i> , <b>2020</b> , 34, 4675-4696	3.3	3
147	Nitrogen isotope fractionation of amino acids from a controlled study on the green turtle ( <i>Chelonia mydas</i> ): expanding beyond Glx/Phe for trophic position. <i>Marine Biology</i> , <b>2020</b> , 167, 1	2.5	3
146	Mercury isotopes identify near-surface marine mercury in deep-sea trench biota. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 29292-29298	11.5	19
145	Trophic interactions of megafauna in the Mariana and Kermadec trenches inferred from stable isotope analysis. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , <b>2020</b> , 164, 103360	2.5	2

144	Trophic Ecology of the Tropical Pacific Sponge <i>Mycale grandis</i> Inferred from Amino Acid Compound-Specific Isotopic Analyses. <i>Microbial Ecology</i> , <b>2020</b> , 79, 495-510	4.4	10
143	Mercury Cycling in the North Pacific Subtropical Gyre as Revealed by Mercury Stable Isotope Ratios. <i>Global Biogeochemical Cycles</i> , <b>2019</b> , 33, 777-794	5.9	26
142	Spatial variation in the biochemical and isotopic composition of corals during bleaching and recovery. <i>Limnology and Oceanography</i> , <b>2019</b> , 64, 2011-2028	4.8	30
141	Effects of chemical preservation on bulk and amino acid isotope ratios of zooplankton, fish, and squid tissues. <i>Rapid Communications in Mass Spectrometry</i> , <b>2019</b> , 33, 935-945	2.2	13
140	Seasonal and spatial changes in carbon and nitrogen fluxes estimated using <sup>234</sup> Th: <sup>238</sup> U disequilibria in the North Pacific tropical and subtropical gyre. <i>Marine Chemistry</i> , <b>2019</b> , 217, 103705	3.7	9
139	Differences in the trophic ecology of micronekton driven by diel vertical migration. <i>Limnology and Oceanography</i> , <b>2019</b> , 64, 1473-1483	4.8	9
138	Microbial oxidation of nitrogen supplied as selected organic nitrogen compounds in the South Atlantic Bight. <i>Limnology and Oceanography</i> , <b>2019</b> , 64, 982-995	4.8	12
137	Light and temperature control the seasonal distribution of thaumarchaeota in the South Atlantic bight. <i>ISME Journal</i> , <b>2018</b> , 12, 1473-1485	11.9	22
136	Temporal trends in a biomagnifying contaminant: Application of amino acid compound-specific stable nitrogen isotope analysis to the interpretation of bird mercury levels. <i>Environmental Toxicology and Chemistry</i> , <b>2018</b> , 37, 1458-1465	3.8	16
135	Life history of abyssal and hadal fishes from otolith growth zones and oxygen isotopic compositions. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , <b>2018</b> , 132, 37-50	2.5	10
134	Stable isotope analysis of micronekton around Hawaii reveals suspended particles are an important nutritional source in the lower mesopelagic and upper bathypelagic zones. <i>Limnology and Oceanography</i> , <b>2018</b> , 63, 1168-1180	4.8	29
133	Spatial trends in a biomagnifying contaminant: Application of amino acid compound-specific stable nitrogen isotope analysis to the interpretation of bird mercury levels. <i>Environmental Toxicology and Chemistry</i> , <b>2018</b> , 37, 1466-1475	3.8	24
132	Assessing seasonal changes in animal diets with stable-isotope analysis of amino acids: a migratory boreal songbird switches diet over its annual cycle. <i>Oecologia</i> , <b>2018</b> , 187, 1-13	2.9	27
131	Reconstructing lifetime nitrogen baselines and trophic position of <i>Cynoscion acoupa</i> from $\delta^{15}\text{N}$ values of amino acids in otoliths. <i>Marine Ecology - Progress Series</i> , <b>2018</b> , 597, 1-11	2.6	6
130	Long-term trends in the foraging ecology and habitat use of an endangered species: an isotopic perspective. <i>Oecologia</i> , <b>2018</b> , 188, 1273-1285	2.9	5
129	Nitrogen recovery and nitrous oxide (N <sub>2</sub> O) emissions from aquaponic systems: Influence of plant species and dissolved oxygen. <i>International Biodeterioration and Biodegradation</i> , <b>2018</b> , 134, 117-126	4.8	14
128	Comparative feeding ecology of abyssal and hadal fishes through stomach content and amino acid isotope analysis. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , <b>2017</b> , 121, 110-120	2.5	30
127	Spatial food-web structure in the eastern tropical Pacific Ocean based on compound-specific nitrogen isotope analysis of amino acids. <i>Limnology and Oceanography</i> , <b>2017</b> , 62, 541-560	4.8	21

126	Submarine groundwater discharge drives biogeochemistry in two Hawaiian reefs. <i>Limnology and Oceanography</i> , <b>2017</b> , 62, S348-S363	4.8	21
125	Genetic Ancestry of Rapanui before and after European Contact. <i>Current Biology</i> , <b>2017</b> , 27, 3209-3215.e63	6.3	17
124	Fate of nitrogen in floating-raft aquaponic systems using natural abundance nitrogen isotopic compositions. <i>International Biodeterioration and Biodegradation</i> , <b>2017</b> , 125, 24-32	4.8	24
123	Diet of the prehistoric population of Rapa Nui (Easter Island, Chile) shows environmental adaptation and resilience. <i>American Journal of Physical Anthropology</i> , <b>2017</b> , 164, 343-361	2.5	42
122	Advances in the application of amino acid nitrogen isotopic analysis in ecological and biogeochemical studies. <i>Organic Geochemistry</i> , <b>2017</b> , 113, 150-174	3.1	134
121	Carbon, Nitrogen, and Mercury Isotope Evidence for the Biogeochemical History of Mercury in Hawaiian Marine Bottomfish. <i>Environmental Science &amp; Technology</i> , <b>2017</b> , 51, 13976-13984	10.3	17
120	Oxidation of urea-derived nitrogen by thaumarchaeota-dominated marine nitrifying communities. <i>Environmental Microbiology</i> , <b>2017</b> , 19, 4838-4850	5.2	33
119	Impacts of Endangered Seabirds on Nutrient Cycling in Montane Forest Ecosystems of Hawai'i. <i>Pacific Science</i> , <b>2017</b> , 71, 495-509	0.9	4
118	Opportunism on the High Seas: Foraging Ecology of Olive Ridley Turtles in the Eastern Pacific Ocean. <i>Frontiers in Marine Science</i> , <b>2017</b> , 4,	4.5	17
117	Amino Acid Specific Stable Nitrogen Isotope Values in Avian Tissues: Insights from Captive American Kestrels and Wild Herring Gulls. <i>Environmental Science &amp; Technology</i> , <b>2016</b> , 50, 12928-12937	19.3	26
116	Quantifying mercury isotope dynamics in captive Pacific bluefin tuna ( <i>Thunnus orientalis</i> ). <i>Elementa</i> , <b>2016</b> , 4,	3.6	17
115	Intrinsic tracers reveal recent foraging ecology of giant Pacific bluefin tuna at their primary spawning grounds. <i>Marine Ecology - Progress Series</i> , <b>2016</b> , 553, 253-266	2.6	19
114	Compound-specific isotopic analysis of amino acids reveals dietary changes in mesophotic coral-reef fish. <i>Marine Ecology - Progress Series</i> , <b>2016</b> , 558, 65-79	2.6	12
113	A comprehensive investigation of mesophotic coral ecosystems in the Hawaiian Archipelago. <i>PeerJ</i> , <b>2016</b> , 4, e2475	3.1	72
112	Ammonia Oxidation in the Ocean Can Be Inhibited by Nanomolar Concentrations of Hydrogen Peroxide. <i>Frontiers in Marine Science</i> , <b>2016</b> , 3,	4.5	39
111	Contribution of ammonia oxidation to chemoautotrophy in Antarctic coastal waters. <i>ISME Journal</i> , <b>2016</b> , 10, 2605-2619	11.9	53
110	Wastewater injection, aquifer biogeochemical reactions, and resultant groundwater N fluxes to coastal waters: Kaneohe Bay, Maui, Hawaii. <i>Marine Pollution Bulletin</i> , <b>2016</b> , 110, 281-292	6.7	12
109	Mesopelagic zooplankton metabolic demand in the North Pacific Subtropical Gyre. <i>Limnology and Oceanography</i> , <b>2015</b> , 60, 419-428	4.8	6

108	Meta-analysis of amino acid stable nitrogen isotope ratios for estimating trophic position in marine organisms. <i>Oecologia</i> , <b>2015</b> , 178, 631-42	2.9	110
107	Expanded trophic complexity among large sharks. <i>Food Webs</i> , <b>2015</b> , 4, 1-7	1.8	46
106	Nitrogen isotopic baselines and implications for estimating foraging habitat and trophic position of yellowfin tuna in the Indian and Pacific Oceans. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , <b>2015</b> , 113, 188-198	2.3	92
105	Small phytoplankton drive high summertime carbon and nutrient export in the Gulf of California and Eastern Tropical North Pacific. <i>Global Biogeochemical Cycles</i> , <b>2015</b> , 29, 1309-1332	5.9	34
104	Trophic structure and food resources of epipelagic and mesopelagic fishes in the North Pacific Subtropical Gyre ecosystem inferred from nitrogen isotopic compositions. <i>Limnology and Oceanography</i> , <b>2015</b> , 60, 1156-1171	4.8	79
103	Trophic position estimates of marine teleosts using amino acid compound specific isotopic analysis. <i>Limnology and Oceanography: Methods</i> , <b>2015</b> , 13, 476-493	2.6	80
102	Mercury sources and trophic ecology for Hawaiian bottomfish. <i>Environmental Science &amp; Technology</i> , <b>2015</b> , 49, 6909-18	10.3	19
101	Movements and foraging of predators associated with mesophotic coral reefs and their potential for linking ecological habitats. <i>Marine Ecology - Progress Series</i> , <b>2015</b> , 521, 155-170	2.6	71
100	Reconstructing transoceanic migration patterns of Pacific bluefin tuna using a chemical tracer toolbox. <i>Ecology</i> , <b>2014</b> , 95, 1674-83	4.6	47
99	Nitrogen isotope fractionation and amino acid turnover rates in the Pacific white shrimp <i>Litopenaeus vannamei</i> . <i>Marine Ecology - Progress Series</i> , <b>2014</b> , 516, 239-250	2.6	17
98	Assessing Nitrogen Transformations in a Flooded Agroecosystem Using the Isotope Pairing Technique and Nitrogen Functional Gene Abundances. <i>Soil Science</i> , <b>2014</b> , 179, 2-10	0.9	2
97	Tracing the biosynthetic source of essential amino acids in marine turtles using delta13C fingerprints. <i>Ecology</i> , <b>2014</b> , 95, 1285-93	4.6	48
96	Isotopic invisibility of protozoan trophic steps in marine food webs. <i>Limnology and Oceanography</i> , <b>2014</b> , 59, 1590-1598	4.8	60
95	Amino acid 15N trophic enrichment factors of four large carnivorous fishes. <i>Journal of Experimental Marine Biology and Ecology</i> , <b>2014</b> , 453, 76-83	2.1	54
94	A biomarker perspective on coccolithophorid growth and export in a stratified sea. <i>Progress in Oceanography</i> , <b>2014</b> , 122, 65-76	3.8	7
93	Amino acid isotope incorporation and enrichment factors in Pacific bluefin tuna, <i>Thunnus orientalis</i> . <i>PLoS ONE</i> , <b>2014</b> , 9, e85818	3.7	46
92	Methylmercury production below the mixed layer in the North Pacific Ocean. <i>Nature Geoscience</i> , <b>2013</b> , 6, 879-884	18.3	221
91	Nitrite oxidation in the upper water column and oxygen minimum zone of the eastern tropical North Pacific Ocean. <i>ISME Journal</i> , <b>2013</b> , 7, 2192-205	11.9	71

90	Can stormwater be detected by algae in an urban reef in Hawaii? <i>Marine Pollution Bulletin</i> , <b>2013</b> , 71, 92-100	6.7	7
89	Importance of sub-surface rhizosphere-mediated coupled nitrification–denitrification in a flooded agroecosystem in Hawaii. <i>Soil Biology and Biochemistry</i> , <b>2013</b> , 57, 362-373	7.5	35
88	Isotopic Analyses of Individual Compounds. <i>Geophysical Monograph Series</i> , <b>2013</b> , 199-205	1.1	
87	Trophic ecology of a green turtle breeding population. <i>Marine Ecology - Progress Series</i> , <b>2013</b> , 476, 237-249	4.9	76
86	Nitrogen fixation in the Gulf of California and the Eastern Tropical North Pacific. <i>Progress in Oceanography</i> , <b>2013</b> , 109, 1-17	3.8	43
85	Environmental perturbation effects on baseline $\delta^{15}\text{N}$ values and zooplankton trophic flexibility in the southern California Current Ecosystem. <i>Limnology and Oceanography</i> , <b>2013</b> , 58, 624-634	4.8	43
84	Midwater zooplankton and suspended particle dynamics in the North Pacific Subtropical Gyre: A stable isotope perspective. <i>Limnology and Oceanography</i> , <b>2013</b> , 58, 1931-1946	4.8	103
83	Quantification of ammonia oxidation rates and ammonia-oxidizing archaea and bacteria at high resolution in the Gulf of California and eastern tropical North Pacific Ocean. <i>Limnology and Oceanography</i> , <b>2012</b> , 57, 711-726	4.8	121
82	Tissue turnover rates and isotopic trophic discrimination factors in the endothermic teleost, pacific bluefin tuna ( <i>Thunnus orientalis</i> ). <i>PLoS ONE</i> , <b>2012</b> , 7, e49220	3.7	99
81	Spatial variability in growth and prey availability of lobsters in the northwestern Hawaiian Islands. <i>Marine Ecology - Progress Series</i> , <b>2012</b> , 449, 211-220	2.6	10
80	Global trophic position comparison of two dominant mesopelagic fish families (Myctophidae, Stomiidae) using amino acid nitrogen isotopic analyses. <i>PLoS ONE</i> , <b>2012</b> , 7, e50133	3.7	76
79	Stable isotope tracking of endangered sea turtles: validation with satellite telemetry and $\delta^{15}\text{N}$ analysis of amino acids. <i>PLoS ONE</i> , <b>2012</b> , 7, e37403	3.7	99
78	Insights into nitrogen cycling in the western Gulf of California from the nitrogen isotopic composition of diatom-bound organic matter. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2011</b> , 12, n/a-n/a	3.6	4
77	Nursery habitat use and foraging ecology of the brown stingray <i>Dasyatis lata</i> determined from stomach contents, bulk and amino acid stable isotopes. <i>Marine Ecology - Progress Series</i> , <b>2011</b> , 433, 221-236	2.6	111
76	Abundance, diversity, and activity of ammonia-oxidizing prokaryotes in the coastal Arctic ocean in summer and winter. <i>Applied and Environmental Microbiology</i> , <b>2011</b> , 77, 2026-34	4.8	79
75	Global declines in oceanic nitrification rates as a consequence of ocean acidification. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 208-13	11.5	240
74	Geochemical and climate modeling evidence for Holocene aridification in Hawaii: dynamic response to a weakening equatorial cold tongue. <i>Quaternary Science Reviews</i> , <b>2010</b> , 29, 3057-3066	3.9	11
73	Food-web inferences of stable isotope spatial patterns in copepods and yellowfin tuna in the pelagic eastern Pacific Ocean. <i>Progress in Oceanography</i> , <b>2010</b> , 86, 124-138	3.8	97



72	Quantification of zooplankton trophic position in the North Pacific Subtropical Gyre using stable nitrogen isotopes. <i>Limnology and Oceanography</i> , <b>2009</b> , 54, 50-61	4.8	146
71	The influence of depth on mercury levels in pelagic fishes and their prey. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 13865-9	11.5	147
70	Nitrogen and carbon isotope values of individual amino acids: a tool to study foraging ecology of penguins in the Southern Ocean. <i>Marine Ecology - Progress Series</i> , <b>2009</b> , 391, 293-306	2.6	112
69	Molecular and biogeochemical evidence for ammonia oxidation by marine Crenarchaeota in the Gulf of California. <i>ISME Journal</i> , <b>2008</b> , 2, 429-41	11.9	329
68	Surface water productivity and paleoceanographic implications in the Cenozoic Arctic Ocean. <i>Paleoceanography</i> , <b>2008</b> , 23, n/a-n/a		37
67	Alkenone abundance and its relationship to the coccolithophore assemblage in Gulf of California surface waters. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , <b>2008</b> , 55, 1118-1130	2.5	15
66	Microbial ammonia oxidation and enhanced nitrogen cycling in the Endeavour hydrothermal plume. <i>Geochimica Et Cosmochimica Acta</i> , <b>2008</b> , 72, 2268-2286	5.5	36
65	Supersaturated N <sub>2</sub> O in a perennially ice-covered Antarctic lake: Molecular and stable isotopic evidence for a biogeochemical relict. <i>Limnology and Oceanography</i> , <b>2008</b> , 53, 2439-2450	4.8	19
64	Bypassing the abyssal benthic food web: Macrourid diet in the eastern North Pacific inferred from stomach content and stable isotopes analyses. <i>Limnology and Oceanography</i> , <b>2008</b> , 53, 2644-2654	4.8	80
63	Direct application of compound-specific radiocarbon analysis of leaf waxes to establish lacustrine sediment chronology. <i>Journal of Paleolimnology</i> , <b>2008</b> , 39, 43-60	2.1	25
62	Sediment Organic Carbon in Todos Santos Bay, Baja California, Mexico. <i>Estuaries and Coasts</i> , <b>2008</b> , 31, 719-727	2.8	4
61	Nitrification controls on fluxes and isotopic composition of nitrate from Florida Keys sponges. <i>Marine Chemistry</i> , <b>2008</b> , 108, 96-108	3.7	54
60	Summer surface waters in the Gulf of California: Prime habitat for biological N <sub>2</sub> fixation. <i>Global Biogeochemical Cycles</i> , <b>2007</b> , 21, n/a-n/a	5.9	44
59	Role of nitrification and denitrification on the nitrous oxide cycle in the eastern tropical North Pacific and Gulf of California. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,		93
58	The calibration of the intramolecular nitrogen isotope distribution in nitrous oxide measured by isotope ratio mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , <b>2007</b> , 21, 391-405	2.2	52
57	Insight into the Trophic Ecology of Yellowfin Tuna, <i>Thunnus albacares</i> , from Compound-Specific Nitrogen Isotope Analysis of Proteinaceous Amino Acids. <i>Journal of Nano Education (Print)</i> , <b>2007</b> , 1, 173-190		105
56	Insight into the Trophic Ecology of Yellowfin Tuna, <i>Thunnus albacares</i> , from Compound-Specific Nitrogen Isotope Analysis of Proteinaceous Amino Acids <b>2007</b> , 173-190		23
55	A rapid ontogenetic shift in the diet of juvenile yellowfin tuna from Hawaii. <i>Marine Biology</i> , <b>2006</b> , 150, 647-658	2.5	155

54	Seasonal patterns of alkenone production in the subtropical oligotrophic North Pacific. <i>Paleoceanography</i> , <b>2006</b> , 21, n/a-n/a		30
53	Carbon isotopic fractionation by the marine diatom <i>Phaeodactylum tricornutum</i> under nutrient- and light-limited growth conditions. <i>Geochimica Et Cosmochimica Acta</i> , <b>2006</b> , 70, 5323-5335	5.5	38
52	Nitrous oxide cycling in the Black Sea inferred from stable isotope and isotopomer distributions. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , <b>2006</b> , 53, 1802-1816	2.3	56
51	A new method for estimating growth rates of alkenone-producing haptophytes. <i>Limnology and Oceanography: Methods</i> , <b>2006</b> , 4, 114-129	2.6	19
50	Ecology and biogeochemistry of alkenone production at Station ALOHA. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , <b>2005</b> , 52, 699-719	2.5	53
49	Contributions of denitrification and mixing on the distribution of nitrous oxide in the North Pacific. <i>Geophysical Research Letters</i> , <b>2005</b> , 32, n/a-n/a	4.9	34
48	Intermittent euxinia: Reconciliation of a Jurassic black shale with its biofacies. <i>Geology</i> , <b>2004</b> , 32, 421	5	57
47	A viable microbial community in a subglacial volcanic crater lake, Iceland. <i>Astrobiology</i> , <b>2004</b> , 4, 327-44	3.7	64
46	Bicarbonate uptake by Southern Ocean phytoplankton. <i>Global Biogeochemical Cycles</i> , <b>2004</b> , 18, n/a-n/a	5.9	70
45	Sources of inorganic carbon for photosynthesis in a strain of <i>Phaeodactylum tricornutum</i> . <i>Limnology and Oceanography</i> , <b>2002</b> , 47, 1192-1197	4.8	18
44	Methane in aging hydrothermal plumes. <i>Geochimica Et Cosmochimica Acta</i> , <b>2002</b> , 66, 3563-3571	5.5	55
43	Nitrogen and oxygen isotopomeric constraints on the origins and sea-to-air flux of N <sub>2</sub> O in the oligotrophic subtropical North Pacific gyre. <i>Global Biogeochemical Cycles</i> , <b>2002</b> , 16, 12-1-12-10	5.9	97
42	<sup>13</sup> C discrimination patterns in oceanic phytoplankton: likely influence of CO <sub>2</sub> concentrating mechanisms, and implications for palaeoreconstructions. <i>Functional Plant Biology</i> , <b>2002</b> , 29, 323-333	2.7	79
41	Highly elevated methane in the eastern tropical North Pacific and associated isotopically enriched fluxes to the atmosphere. <i>Geophysical Research Letters</i> , <b>2001</b> , 28, 4567-4570	4.9	64
40	Controls on the molecular distribution and carbon isotopic composition of alkenones in certain haptophyte algae. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2001</b> , 2, n/a-n/a	3.6	53
39	Mechanisms of nitrous oxide production in the subtropical North Pacific based on determinations of the isotopic abundances of nitrous oxide and di-oxygen. <i>Chemosphere</i> , <b>2000</b> , 2, 281-290		60
38	Preparative HPLC with ultrastable-Y zeolite for compound-specific carbon isotopic analyses. <i>Organic Geochemistry</i> , <b>2000</b> , 31, 1087-1094	3.1	29
37	Isotope fractionation and atmospheric oxygen: implications for phanerozoic O <sub>2</sub> evolution. <i>Science</i> , <b>2000</b> , 287, 1630-3	33.3	167



36	Methane production, consumption, and air-sea exchange in the open ocean: An Evaluation based on carbon isotopic ratios. <i>Global Biogeochemical Cycles</i> , <b>2000</b> , 14, 1-10	5.9	97
35	The origin of organic matter in the Martian meteorite ALH84001. <i>Advances in Space Research</i> , <b>1999</b> , 24, 477-88	2.4	12
34	The origin of organic matter in the Martian meteorite ALH84001. <i>Earth and Planetary Science Letters</i> , <b>1999</b> , 167, 71-9	5.3	58
33	Methane stable isotopic ratios and concentrations as indicators of methane dynamics in estuaries. <i>Global Biogeochemical Cycles</i> , <b>1999</b> , 13, 463-474	5.9	53
32	Controls on the carbon isotopic composition of southern ocean phytoplankton. <i>Global Biogeochemical Cycles</i> , <b>1999</b> , 13, 827-843	5.9	104
31	Iron-stimulated changes in $\delta^{13}\text{C}$ fractionation and export by equatorial Pacific phytoplankton: Toward a paleogrowth rate proxy. <i>Paleoceanography</i> , <b>1999</b> , 14, 589-595		67
30	Controls on the Carbon Isotopic Composition of Phytoplankton <b>1999</b> , 381-398		14
29	A large source of atmospheric nitrous oxide from subtropical North Pacific surface waters. <i>Nature</i> , <b>1998</b> , 396, 63-66	50.4	166
28	Effect of Phytoplankton Cell Geometry on Carbon Isotopic Fractionation. <i>Geochimica Et Cosmochimica Acta</i> , <b>1998</b> , 62, 69-77	5.5	495
27	Does growth rate affect ketone unsaturation and intracellular carbon isotopic variability in <i>Emiliania huxleyi</i> ?. <i>Paleoceanography</i> , <b>1998</b> , 13, 35-41		99
26	Sources of inorganic carbon for marine microalgal photosynthesis: A reassessment of $\delta^{13}\text{C}$ data from batch culture studies of <i>Thalassiosira pseudonana</i> and <i>Emiliania huxleyi</i> . <i>Limnology and Oceanography</i> , <b>1998</b> , 43, 136-142	4.8	27
25	Effect of growth rate and $\text{CO}_2$ concentration on carbon isotopic fractionation by the marine diatom <i>Phaeodactylum tricornutum</i> . <i>Limnology and Oceanography</i> , <b>1997</b> , 42, 1552-1560	4.8	138
24	Stable Carbon Isotopic Analysis of Low-Level Methane in Water and Gas. <i>Analytical Chemistry</i> , <b>1997</b> , 69, 40-44	7.8	65
23	Organic carbon $\delta^{13}\text{C}$ variations in sedimentary rocks as chemostratigraphic and paleoenvironmental tools. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , <b>1997</b> , 132, 119-132	2.9	55
22	Consistent fractionation of $\delta^{13}\text{C}$ in nature and in the laboratory: growth-rate effects in some haptophyte algae. <i>Global Biogeochemical Cycles</i> , <b>1997</b> , 11, 279-92	5.9	289
21	Dependence of phytoplankton carbon isotopic composition on growth rate and $[\text{CO}_2]_{\text{aq}}$ : Theoretical considerations and experimental results. <i>Geochimica Et Cosmochimica Acta</i> , <b>1995</b> , 59, 1131-1138	5.5	578
20	Determination of Concentration and Carbon Isotopic Composition of Dissolved Methane in Sediments and Nearshore Waters. <i>Analytical Chemistry</i> , <b>1995</b> , 67, 405-411	7.8	88
19	Dissolved organic carbon in oligotrophic waters: experiments on sample preservation, storage and analysis. <i>Marine Chemistry</i> , <b>1994</b> , 45, 207-216	3.7	59

18	Diver-operated piston corer for nearshore use. <i>Estuaries and Coasts</i> , <b>1994</b> , 17, 716		12
17	Porphyrin and chlorin distributions in a Late Pliocene lacustrine sediment. <i>Geochimica Et Cosmochimica Acta</i> , <b>1994</b> , 58, 3691-701	5.5	44
16	Microscale determination of the spectral characteristics and carbon-isotopic compositions of porphyrins. <i>Energy &amp; Fuels</i> , <b>1993</b> , 7, 185-90	4.1	3
15	Carbon and nitrogen isotopic compositions of alkyl porphyrins from the Triassic Serpiano oil shale. <i>Geochimica Et Cosmochimica Acta</i> , <b>1993</b> , 57, 1307-11	5.5	43
14	Origin and alteration of organic matter of the Oxford Clay Formation (U.K.) determined from bulk geochemical analyses. <i>The Paleontological Society Special Publications</i> , <b>1992</b> , 6, 163-163		
13	Primary and Secondary Controls on Carbon-Isotopic Compositions of Sedimentary Organic Matter. <i>Developments in Geochemistry</i> , <b>1991</b> , 6, 3-14		1
12	Origin of petroporphyrins. 2. Evidence from stable carbon isotopes. <i>Energy &amp; Fuels</i> , <b>1990</b> , 4, 658-61	4.1	19
11	Compound-specific isotopic analyses: a novel tool for reconstruction of ancient biogeochemical processes. <i>Organic Geochemistry</i> , <b>1990</b> , 16, 1115-28	3.1	607
10	Different isotope compositions of C32 DPEP and C32 etioporphyrin III in oil shale: origin of etioporphyrin III from heme?. <i>Die Naturwissenschaften</i> , <b>1989</b> , 76, 419-21	2	40
9	Lithium-to-calcium ratios in Modern, Cenozoic, and Paleozoic articulate brachiopod shells. <i>Paleoceanography</i> , <b>1989</b> , 4, 681-691		33
8	An isotopic study of biogeochemical relationships between carbonates and organic carbon in the Greenhorn Formation. <i>Geochimica Et Cosmochimica Acta</i> , <b>1989</b> , 53, 2961-72	5.5	208
7	Origins of etioporphyrins in sediments: evidence from stable carbon isotopes. <i>Geochimica Et Cosmochimica Acta</i> , <b>1989</b> , 53, 2451-5	5.5	54
6	The post-Paleozoic chronology and mechanism of <sup>13</sup> C depletion in primary marine organic matter. <i>Numerische Mathematik</i> , <b>1989</b> , 289, 436-54	5.3	268
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4	Textural, Elemental, and Isotopic Variations Among Constituents in Middle Devonian Limestones, North America. <i>Journal of Sedimentary Research</i> , <b>1986</b> , Vol. 56,	2.1	5
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2	Holocene Lacustrine Ooids from Pyramid Lake, Nevada <b>1983</b> , 142-153		9
1	Spatial variation in the biochemical and isotopic composition of corals during bleaching and recovery		1

