

Ronald Benner

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/2987968/ronald-benner-publications-by-year.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

202
papers

21,773
citations

82
h-index

145
g-index

215
ext. papers

24,313
ext. citations

6.7
avg, IF

7.01
L-index

#	Paper	IF	Citations
202	The MALINA oceanographic expedition: how do changes in ice cover, permafrost and UV radiation impact biodiversity and biogeochemical fluxes in the Arctic Ocean?. <i>Earth System Science Data</i> , 2021 , 13, 1561-1592	10.5	1
201	What Is Refractory Organic Matter in the Ocean?. <i>Frontiers in Marine Science</i> , 2021 , 8,	4.5	6
200	Insights into the origins, molecular characteristics and distribution of iron-binding ligands in the Arctic Ocean. <i>Marine Chemistry</i> , 2021 , 231, 103936	3.7	5
199	Spatial abundance distribution of prokaryotes is associated with dissolved organic matter composition and ecosystem function. <i>Limnology and Oceanography</i> , 2021 , 66, 575-587	4.8	4
198	The Transpolar Drift as a Source of Riverine and Shelf-Derived Trace Elements to the Central Arctic Ocean. <i>Journal of Geophysical Research: Oceans</i> , 2020 , 125, e2019JC015920	3.3	42
197	Green Edge ice camp campaigns: understanding the processes controlling the under-ice Arctic phytoplankton spring bloom. <i>Earth System Science Data</i> , 2020 , 12, 151-176	10.5	13
196	Amino acids and amino sugars as molecular indicators of the origins and alterations of organic matter in buried tephra layers. <i>Geoderma</i> , 2020 , 373, 114449	6.7	1
195	Importance of refractory ligands and their photodegradation for iron oceanic inventories and cycling. <i>Marine and Freshwater Research</i> , 2020 , 71, 311	2.2	11
194	Molecular properties are a primary control on the microbial utilization of dissolved organic matter in the ocean. <i>Limnology and Oceanography</i> , 2020 , 65, 1061-1071	4.8	30
193	Mixing it up in the ocean carbon cycle and the removal of refractory dissolved organic carbon. <i>Scientific Reports</i> , 2018 , 8, 2542	4.9	38
192	Pan-Arctic Distribution of Bioavailable Dissolved Organic Matter and Linkages With Productivity in Ocean Margins. <i>Geophysical Research Letters</i> , 2018 , 45, 1490-1498	4.9	9
191	Unveiling the enigma of refractory carbon in the ocean. <i>National Science Review</i> , 2018 , 5, 459-463	10.8	38
190	Evolving paradigms in biological carbon cycling in the ocean. <i>National Science Review</i> , 2018 , 5, 481-499	10.8	34
189	Biochemical and structural controls on the decomposition dynamics of boreal upland forest moss tissues. <i>Biogeosciences</i> , 2018 , 15, 6731-6746	4.6	7
188	An implementation strategy to quantify the marine microbial carbon pump and its sensitivity to global change. <i>National Science Review</i> , 2018 , 5, 474-480	10.8	10
187	A recent project shows that the microbial carbon pump is a primary mechanism driving ocean carbon uptake. <i>National Science Review</i> , 2018 , 5, 458-458	10.8	3
186	Radiocarbon in dissolved organic and inorganic carbon of the Arctic Ocean. <i>Geophysical Research Letters</i> , 2017 , 44, 2369-2376	4.9	11

185	The fate of terrigenous dissolved organic carbon on the Eurasian shelves and export to the North Atlantic. <i>Journal of Geophysical Research: Oceans</i> , 2017 , 122, 4-22	3.3	37
184	Bioavailable dissolved organic matter and biological hot spots during austral winter in Antarctic waters. <i>Journal of Geophysical Research: Oceans</i> , 2017 , 122, 508-520	3.3	14
183	Strong linkages between surface and deep-water dissolved organic matter in the East/Japan Sea. <i>Biogeosciences</i> , 2017 , 14, 2561-2570	4.6	8
182	Climate Warming Can Accelerate Carbon Fluxes without Changing Soil Carbon Stocks. <i>Frontiers in Earth Science</i> , 2017 , 5,	3.5	23
181	The removal kinetics of dissolved organic matter and the optical clarity of groundwater. <i>Hydrogeology Journal</i> , 2016 , 24, 1413-1422	3.1	6
180	Soil organic nitrogen cycling increases with temperature and precipitation along a boreal forest latitudinal transect. <i>Biogeochemistry</i> , 2016 , 127, 397-410	3.8	27
179	Predicting Dissolved Lignin Phenol Concentrations in the Coastal Ocean from Chromophoric Dissolved Organic Matter (CDOM) Absorption Coefficients. <i>Frontiers in Marine Science</i> , 2016 , 3,	4.5	34
178	Sources and Transformations of Dissolved Lignin Phenols and Chromophoric Dissolved Organic Matter in Otsuchi Bay, Japan. <i>Frontiers in Marine Science</i> , 2016 , 3,	4.5	20
177	Sources, Distributions, and Dynamics of Dissolved Organic Matter in the Canada and Makarov Basins. <i>Frontiers in Marine Science</i> , 2016 , 3,	4.5	17
176	Biological hot spots and the accumulation of marine dissolved organic matter in a highly productive ocean margin. <i>Limnology and Oceanography</i> , 2016 , 61, 1287-1300	4.8	28
175	Mass balance estimates of carbon export in different water masses of the Chukchi Sea shelf. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2016 , 130, 88-99	2.3	4
174	Effect of P-limitation on prokaryotic and viral production in surface waters of the Northwestern Mediterranean Sea. <i>Journal of Plankton Research</i> , 2015 , 37, 16-20	2.2	11
173	Marine sequestration of carbon in bacterial metabolites. <i>Nature Communications</i> , 2015 , 6, 6711	17.4	132
172	Temperature, oxygen, and vegetation controls on decomposition in a James Bay peatland. <i>Global Biogeochemical Cycles</i> , 2015 , 29, 729-743	5.9	18
171	Linkages among fluorescent dissolved organic matter, dissolved amino acids and lignin-derived phenols in a river-influenced ocean margin. <i>Frontiers in Marine Science</i> , 2015 , 2,	4.5	37
170	Origins and bioavailability of dissolved organic matter in groundwater. <i>Biogeochemistry</i> , 2015 , 122, 61-78,8		123
169	The size-reactivity continuum of major bioelements in the ocean. <i>Annual Review of Marine Science</i> , 2015 , 7, 185-205	15.4	161
168	Sources, distributions, and early diagenesis of sedimentary organic matter in the Pearl River region of the South China Sea. <i>Marine Chemistry</i> , 2014 , 158, 39-48	3.7	51

167	The fate of terrigenous dissolved organic carbon in a river-influenced ocean margin. <i>Global Biogeochemical Cycles</i> , 2014 , 28, 300-318	5.9	99
166	The roles of microorganisms in litter decomposition and soil formation. <i>Biogeochemistry</i> , 2014 , 118, 471-486	4.8	51
165	Biochemical evidence for minimal vegetation change in peatlands of the West Siberian Lowland during the Medieval Climate Anomaly and Little Ice Age. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2014 , 119, 808-825	3.7	11
164	Pulsed, cross-shelf export of terrigenous dissolved organic carbon to the Gulf of Mexico. <i>Journal of Geophysical Research: Oceans</i> , 2014 , 119, 1176-1194	3.3	44
163	Production and transformation of dissolved neutral sugars and amino acids by bacteria in seawater. <i>Biogeosciences</i> , 2014 , 11, 5349-5363	4.6	9
162	Does oxygen exposure time control the extent of organic matter decomposition in peatlands?. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2014 , 119, 897-909	3.7	31
161	Variable D values among major biochemicals in plants: Implications for environmental studies. <i>Geochimica Et Cosmochimica Acta</i> , 2013 , 111, 117-127	5.5	13
160	Reactivity of hydroxyproline-rich glycoproteins and their potential as biochemical tracers of plant-derived nitrogen. <i>Organic Geochemistry</i> , 2013 , 57, 11-22	3.1	19
159	Pan-Arctic distributions of continental runoff in the Arctic Ocean. <i>Scientific Reports</i> , 2013 , 3, 1053	4.9	157
158	Ultra-Filtration for the Concentration of Bacteria, Viruses, and Dissolved Organic Matter. <i>Geophysical Monograph Series</i> , 2013 , 181-185	1.1	14
157	Potentially Bioavailable Natural Organic Carbon and Hydrolyzable Amino Acids in Aquifer Sediments. <i>Ground Water Monitoring and Remediation</i> , 2012 , 32, 92-95	1.4	2
156	Characterization of lignin by gas chromatography and mass spectrometry using a simplified CuO oxidation method. <i>Analytical Chemistry</i> , 2012 , 84, 459-64	7.8	61
155	Predicting carbon cycle feedbacks to climate: Integrating the right tools for the job. <i>Eos</i> , 2012 , 93, 188-188	1.8	4
154	Bioavailability and diagenetic state of dissolved organic matter in riparian groundwater. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		30
153	Tracing the transport of colored dissolved organic matter in water masses of the Southern Beaufort Sea: relationship with hydrographic characteristics. <i>Biogeosciences</i> , 2012 , 9, 925-940	4.6	109
152	Carbon fluxes in the Canadian Arctic: patterns and drivers of bacterial abundance, production and respiration on the Beaufort Sea margin. <i>Biogeosciences</i> , 2012 , 9, 3679-3692	4.6	48
151	Organic matter transformations in the upper mesopelagic zone of the North Pacific: Chemical composition and linkages to microbial community structure. <i>Journal of Geophysical Research</i> , 2012 , 117,		52
150	Dissolved organic matter composition and bioavailability reflect ecosystem productivity in the Western Arctic Ocean. <i>Biogeosciences</i> , 2012 , 9, 4993-5005	4.6	50

149	Photoproduction of ammonium in the southeastern Beaufort Sea and its biogeochemical implications. <i>Biogeosciences</i> , 2012 , 9, 3047-3061	4.6	45
148	Dissolved oxygen as an indicator of bioavailable dissolved organic carbon in groundwater. <i>Ground Water</i> , 2012 , 50, 230-41	2.4	24
147	A molecular perspective on the ageing of marine dissolved organic matter. <i>Biogeosciences</i> , 2012 , 9, 1935-1955	4.1	148
146	The spectral slope coefficient of chromophoric dissolved organic matter (S ₂₇₅₋₂₉₅) as a tracer of terrigenous dissolved organic carbon in river-influenced ocean margins. <i>Limnology and Oceanography</i> , 2012 , 57, 1453-1466	4.8	268
145	A simple high performance liquid chromatography method for the measurement of nucleobases and the RNA and DNA content of cellular material. <i>Limnology and Oceanography: Methods</i> , 2012 , 10, 608-616	2.6	9
144	Floodplain influence on dissolved organic matter composition and export from the Mississippi-Atchafalaya River system to the Gulf of Mexico. <i>Limnology and Oceanography</i> , 2012 , 57, 1149-1160	4.8	60
143	A novel method to estimate DOC concentrations from CDOM absorption coefficients in coastal waters. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a	4.9	158
142	Depth distributions of alkaline phosphatase and phosphonate utilization genes in the North Pacific Subtropical Gyre. <i>Aquatic Microbial Ecology</i> , 2011 , 62, 61-69	1.1	41
141	Biosequestration of carbon by heterotrophic microorganisms. <i>Nature Reviews Microbiology</i> , 2011 , 9, 75	22.2	32
140	The microbial carbon pump and the oceanic recalcitrant dissolved organic matter pool. <i>Nature Reviews Microbiology</i> , 2011 , 9, 555-555	22.2	50
139	Biological and photochemical transformations of amino acids and lignin phenols in riverine dissolved organic matter. <i>Biogeochemistry</i> , 2011 , 102, 209-222	3.8	151
138	Loose ligands and available iron in the ocean. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 893-4	11.5	52
137	Bacterial carbon content and the living and detrital bacterial contributions to suspended particulate organic carbon in the North Pacific Ocean. <i>Aquatic Microbial Ecology</i> , 2011 , 62, 165-176	1.1	34
136	Microbial production of recalcitrant dissolved organic matter: long-term carbon storage in the global ocean. <i>Nature Reviews Microbiology</i> , 2010 , 8, 593-9	22.2	849
135	Organic matter diagenesis and bacterial contributions to detrital carbon and nitrogen in the Amazon River system. <i>Limnology and Oceanography</i> , 2009 , 54, 681-691	4.8	39
134	Biochemical indicators for the bioavailability of organic carbon in ground water. <i>Ground Water</i> , 2009 , 47, 108-21	2.4	31
133	Biochemical composition and size distribution of organic matter at the Pacific and Atlantic time-series stations. <i>Marine Chemistry</i> , 2009 , 113, 63-77	3.7	196
132	Amino acid and amino sugar yields and compositions as indicators of dissolved organic matter diagenesis. <i>Organic Geochemistry</i> , 2009 , 40, 343-352	3.1	120

131	Subcellular localization of marine bacterial alkaline phosphatases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 21219-23	11.5	156
130	Dispersion and cycling of organic matter from the Sepik River outflow to the Papua New Guinea coast as determined from biomarkers. <i>Organic Geochemistry</i> , 2008 , 39, 1747-1764	3.1	19
129	Marine biopolymer self-assembly: implications for carbon cycling in the ocean. <i>Faraday Discussions</i> , 2008 , 139, 393-8; discussion 399-417, 419-20	3.6	41
128	Major bacterial contribution to the ocean reservoir of detrital organic carbon and nitrogen. <i>Limnology and Oceanography</i> , 2008 , 53, 99-112	4.8	147
127	Quantitative estimates of labile and semi-labile dissolved organic carbon in the western Arctic Ocean: A molecular approach. <i>Limnology and Oceanography</i> , 2007 , 52, 2434-2444	4.8	87
126	Amino acid nitrogen isotopic fractionation patterns as indicators of heterotrophy in plankton, particulate, and dissolved organic matter. <i>Geochimica Et Cosmochimica Acta</i> , 2007 , 71, 4727-4744	5.5	160
125	Bacterial release of dissolved organic matter during cell growth and decline: Molecular origin and composition. <i>Limnology and Oceanography</i> , 2006 , 51, 2170-2180	4.8	146
124	Microbial contributions to N-immobilization and organic matter preservation in decaying plant detritus. <i>Geochimica Et Cosmochimica Acta</i> , 2006 , 70, 133-146	5.5	111
123	Characterization of a major refractory component of marine dissolved organic matter. <i>Geochimica Et Cosmochimica Acta</i> , 2006 , 70, 2990-3010	5.5	549
122	Chemical characteristics of dissolved organic nitrogen in an oligotrophic subtropical coastal ecosystem. <i>Geochimica Et Cosmochimica Acta</i> , 2006 , 70, 4491-4506	5.5	81
121	Nature and dynamics of phosphorus-containing components of marine dissolved and particulate organic matter. <i>Geochimica Et Cosmochimica Acta</i> , 2006 , 70, 5868-5882	5.5	55
120	Terrigenous organic matter sources and reactivity in the North Atlantic Ocean and a comparison to the Arctic and Pacific oceans. <i>Marine Chemistry</i> , 2006 , 100, 66-79	3.7	90
119	Cycling of dissolved and particulate organic matter at station Aloha: Insights from ¹³ C NMR spectroscopy coupled with elemental, isotopic and molecular analyses. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2005 , 52, 1429-1444	2.5	40
118	Seasonal trends in the abundance, composition and bioavailability of particulate and dissolved organic matter in the Chukchi/Beaufort Seas and western Canada Basin. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2005 , 52, 3396-3410	2.3	76
117	Terrigenous dissolved organic matter in the Arctic Ocean and its transport to surface and deep waters of the North Atlantic. <i>Global Biogeochemical Cycles</i> , 2005 , 19, n/a-n/a	5.9	132
116	Arctic system on trajectory to new, seasonally ice-free state. <i>Eos</i> , 2005 , 86, 309	1.5	109
115	Linkages among runoff, dissolved organic carbon, and the stable oxygen isotope composition of seawater and other water mass indicators in the Arctic Ocean. <i>Journal of Geophysical Research</i> , 2005 , 110, n/a-n/a		105
114	Hydrolysis-induced racemization of amino acids. <i>Limnology and Oceanography: Methods</i> , 2005 , 3, 318-325.6		123

113	Photochemical transformations of riverine dissolved organic matter: effects on estuarine bacterial metabolism and nutrient demand. <i>Aquatic Microbial Ecology</i> , 2005 , 40, 37-50	1.1	43
112	Amino acid carbon isotopic fractionation patterns in oceanic dissolved organic matter: an unaltered photoautotrophic source for dissolved organic nitrogen in the ocean?. <i>Marine Chemistry</i> , 2004 , 92, 123-134	3.7	63
111	What happens to terrestrial organic matter in the ocean?. <i>Marine Chemistry</i> , 2004 , 92, 307-310	3.7	42
110	Hydrogen-deficient molecules in natural riverine water samples—evidence for the existence of black carbon in DOM. <i>Marine Chemistry</i> , 2004 , 92, 225-234	3.7	131
109	Transformation of dissolved and particulate materials on continental shelves influenced by large rivers: plume processes. <i>Continental Shelf Research</i> , 2004 , 24, 833-858	2.4	364
108	Organic biomarkers for tracing carbon cycling in the Gulf of Papua (Papua New Guinea). <i>Continental Shelf Research</i> , 2004 , 24, 2373-2394	2.4	20
107	Export of young terrigenous dissolved organic carbon from rivers to the Arctic Ocean. <i>Geophysical Research Letters</i> , 2004 , 31, n/a-n/a	4.9	165
106	Competition between biological and photochemical processes in the mineralization of dissolved organic carbon. <i>Limnology and Oceanography</i> , 2004 , 49, 117-124	4.8	207
105	Abundance of amino sugars and peptidoglycan in marine particulate and dissolved organic matter. <i>Limnology and Oceanography</i> , 2003 , 48, 118-128	4.8	149
104	Photochemical and microbial degradation of dissolved lignin phenols: Implications for the fate of terrigenous dissolved organic matter in marine environments. <i>Journal of Geophysical Research</i> , 2003 , 108,		235
103	Hydroxy fatty acids in marine dissolved organic matter as indicators of bacterial membrane material. <i>Organic Geochemistry</i> , 2003 , 34, 857-868	3.1	75
102	Combined neutral sugars as indicators of the diagenetic state of dissolved organic matter in the Arctic Ocean. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2003 , 50, 151-169	2.5	98
101	Molecular Indicators of the Bioavailability of Dissolved Organic Matter 2003 , 121-137		72
100	P limitation of respiration in the Sargasso Sea and uncoupling of bacteria from P regeneration in size-fractionation experiments. <i>Aquatic Microbial Ecology</i> , 2003 , 32, 229-237	1.1	31
99	Chemical Composition and Reactivity 2002 , 59-90		231
98	Transport and diagenesis of dissolved and particulate terrigenous organic matter in the North Pacific Ocean. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2002 , 49, 2119-2132	2.5	104
97	Characterization and origin of dissolved organic carbon in Yegua ground water in Brazos County, Texas. <i>Ground Water</i> , 2001 , 39, 760-7	2.4	26
96	Composition and cycling of marine organic phosphorus. <i>Limnology and Oceanography</i> , 2001 , 46, 309-320	4.8	229

95	Production of refractory dissolved organic matter by bacteria. <i>Science</i> , 2001 , 292, 917-20	33.3	468
94	Molecular indicators of the sources and transformations of dissolved organic matter in the Mississippi river plume. <i>Organic Geochemistry</i> , 2001 , 32, 597-611	3.1	234
93	Tannin diagenesis in mangrove leaves from a tropical estuary: a novel molecular approach. <i>Geochimica Et Cosmochimica Acta</i> , 2001 , 65, 3109-3122	5.5	153
92	Linkages among the bioreactivity, chemical composition, and diagenetic state of marine dissolved organic matter. <i>Limnology and Oceanography</i> , 2001 , 46, 287-297	4.8	267
91	Effects of solar radiation on dissolved organic matter cycling in a subtropical seagrass meadow. <i>Limnology and Oceanography</i> , 2000 , 45, 257-266	4.8	34
90	Microbial Metabolism and Nutrient Cycling in the Mississippi and Atchafalaya River Plumes. <i>Estuarine, Coastal and Shelf Science</i> , 2000 , 50, 173-184	2.9	76
89	Determination of amino sugars in environmental samples with high salt content by high-performance anion-exchange chromatography and pulsed amperometric detection. <i>Analytical Chemistry</i> , 2000 , 72, 2566-72	7.8	85
88	Isolation and quantification of dissolved lignin from natural waters using solid-phase extraction and GC/MS. <i>Analytical Chemistry</i> , 2000 , 72, 2780-7	7.8	129
87	Major flux of terrigenous dissolved organic matter through the Arctic Ocean. <i>Limnology and Oceanography</i> , 1999 , 44, 2017-2023	4.8	236
86	Characterization of carbohydrates during early diagenesis of five vascular plant tissues. <i>Organic Geochemistry</i> , 1999 , 30, 83-94	3.1	79
85	High-resolution measurements of dissolved organic carbon in the Arctic Ocean by in situ fiber-optic spectrometry. <i>Geophysical Research Letters</i> , 1999 , 26, 1007-1010	4.9	57
84	Bacterial utilization of dissolved glucose in the upper water column of the Gulf of Mexico. <i>Limnology and Oceanography</i> , 1999 , 44, 1625-1633	4.8	57
83	Marine organic phosphorus cycling; novel insights from nuclear magnetic resonance. <i>Numerische Mathematik</i> , 1999 , 299, 724-737	5.3	90
82	Dissolved organic carbon cycling in a subtropical seagrass-dominated lagoon. <i>Marine Ecology - Progress Series</i> , 1999 , 180, 149-160	2.6	92
81	Nutrient cycling in the water column of a subtropical seagrass meadow. <i>Marine Ecology - Progress Series</i> , 1999 , 188, 51-62	2.6	33
80	Seasonal Patterns of Bacterial Abundance and Production in the Mississippi River Plume and Their Importance for the Fate of Enhanced Primary Production. <i>Microbial Ecology</i> , 1998 , 35, 289-300	4.4	49
79	Carbohydrates in phytoplankton and freshly produced dissolved organic matter. <i>Marine Chemistry</i> , 1998 , 63, 131-144	3.7	211
78	Marine phosphorus is selectively remineralized. <i>Nature</i> , 1998 , 393, 426-426	50.4	220

77	Major bacterial contribution to marine dissolved organic nitrogen. <i>Science</i> , 1998 , 281, 231-4	33.3	242
76	Photochemical reactivity of dissolved lignin in river and ocean waters. <i>Limnology and Oceanography</i> , 1998 , 43, 1297-1304	4.8	246
75	Photochemical transformations of surface and deep marine dissolved organic matter: Effects on bacterial growth. <i>Limnology and Oceanography</i> , 1998 , 43, 1373-1378	4.8	166
74	Ecosystem metabolism in a subtropical, seagrass-dominated lagoon. <i>Marine Ecology - Progress Series</i> , 1998 , 173, 1-12	2.6	47
73	Carbon, nitrogen, and carbohydrate fluxes during the production of particulate and dissolved organic matter by marine phytoplankton. <i>Limnology and Oceanography</i> , 1997 , 42, 506-518	4.8	301
72	Planktonic grazers are a potentially important source of marine dissolved organic carbon. <i>Limnology and Oceanography</i> , 1997 , 42, 1364-1374	4.8	179
71	Aldoses in various size fractions of marine organic matter: Implications for carbon cycling. <i>Limnology and Oceanography</i> , 1997 , 42, 1803-1813	4.8	198
70	Major contribution from mesopelagic plankton to heterotrophic metabolism in the upper ocean. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 1997 , 44, 2069-2085	2.5	31
69	What happens to terrestrial organic matter in the ocean?. <i>Organic Geochemistry</i> , 1997 , 27, 195-212	3.1	1071
68	Abundance, size distribution, and stable carbon and nitrogen isotopic compositions of marine organic matter isolated by tangential-flow ultrafiltration. <i>Marine Chemistry</i> , 1997 , 57, 243-263	3.7	260
67	Chemical composition of dissolved organic nitrogen in the ocean. <i>Nature</i> , 1997 , 390, 150-154	50.4	233
66	Distribution and cycling of terrigenous dissolved organic matter in the ocean. <i>Nature</i> , 1997 , 386, 480-483	50.4	406
65	Photochemical and microbial consumption of dissolved organic carbon and dissolved oxygen in the Amazon River system. <i>Geochimica Et Cosmochimica Acta</i> , 1996 , 60, 1783-1792	5.5	278
64	Bacterial utilization of different size classes of dissolved organic matter. <i>Limnology and Oceanography</i> , 1996 , 41, 41-51	4.8	664
63	Major biochemical composition of dissolved high molecular weight organic matter in seawater. <i>Marine Chemistry</i> , 1996 , 55, 281-297	3.7	186
62	Active cycling of organic carbon in the central Arctic Ocean. <i>Nature</i> , 1996 , 380, 697-699	50.4	204
61	Effects of high-molecular-weight dissolved organic matter on nitrogen dynamics in the Mississippi River plume. <i>Marine Ecology - Progress Series</i> , 1996 , 133, 287-297	2.6	33
60	Analyses of dissolved organic carbon in seawater: the JGOFS EqPac methods comparison. <i>Marine Chemistry</i> , 1995 , 48, 91-108	3.7	128

59	The 18O:16O of dissolved oxygen in rivers and lakes in the Amazon Basin: Determining the ratio of respiration to photosynthesis rates in freshwaters. <i>Limnology and Oceanography</i> , 1995 , 40, 718-729	4.8	82
58	Early diagenesis of vascular plant tissues: Lignin and cutin decomposition and biogeochemical implications. <i>Geochimica Et Cosmochimica Acta</i> , 1995 , 59, 4889-4904	5.5	321
57	Bacterial carbon metabolism in the Amazon River system. <i>Limnology and Oceanography</i> , 1995 , 40, 1262-1270	4.8	95
56	Plankton respiration and carbon flux through bacterioplankton on the Louisiana shelf. <i>Limnology and Oceanography</i> , 1994 , 39, 1259-1275	4.8	90
55	Rapid cycling of high-molecular-weight dissolved organic matter in the ocean. <i>Nature</i> , 1994 , 369, 549-553	5.0	386
54	Mineralization of organic material and bacterial dynamics in Mississippi River plume water. <i>Estuaries and Coasts</i> , 1994 , 17, 816		34
53	Abundance and distribution of carbohydrates in the ocean. <i>Limnology and Oceanography</i> , 1994 , 39, 930-940	4.8	189
52	Origins and processing of organic matter in the Amazon River as indicated by carbohydrates and amino acids. <i>Limnology and Oceanography</i> , 1994 , 39, 743-761	4.8	316
51	Denitrification, nutrient regeneration and carbon mineralization in sediments of Galveston Bay, Texas, USA. <i>Marine Ecology - Progress Series</i> , 1994 , 114, 275-288	2.6	52
50	Re-evaluation of high temperature combustion and chemical oxidation measurements of dissolved organic carbon in seawater. <i>Limnology and Oceanography</i> , 1993 , 38, 1774-1782	4.8	103
49	Measurement of dissolved organic carbon and nitrogen in natural waters: Workshop report. <i>Marine Chemistry</i> , 1993 , 41, 5-10	3.7	46
48	DOC subgroup report. <i>Marine Chemistry</i> , 1993 , 41, 11-21	3.7	19
47	Comparative analyses of DOC and DON in natural waters. <i>Marine Chemistry</i> , 1993 , 41, 121-134	3.7	79
46	A critical evaluation of the analytical blank associated with DOC measurements by high-temperature catalytic oxidation. <i>Marine Chemistry</i> , 1993 , 41, 153-160	3.7	299
45	A test of the accuracy of freshwater DOC measurements by high-temperature catalytic oxidation and UV-promoted persulfate oxidation. <i>Marine Chemistry</i> , 1993 , 41, 161-165	3.7	74
44	Variability of dissolved organic carbon in sediments of a seagrass bed and an unvegetated area within an estuary in Southern Texas. <i>Estuaries and Coasts</i> , 1993 , 16, 391		13
43	The chemical composition of dissolved organic matter in seawater. <i>Chemical Geology</i> , 1993 , 107, 503-507	4.2	59
42	Decomposition of senescent blades of the seagrass <i>Halodule wrightii</i> in a subtropical lagoon. <i>Marine Ecology - Progress Series</i> , 1993 , 94, 191-205	2.6	58

41	Bulk chemical characteristics of dissolved organic matter in the ocean. <i>Science</i> , 1992 , 255, 1561-4	33.3	694
40	An improved method for the hydrolysis and MBTH analysis of dissolved and particulate carbohydrates in seawater. <i>Marine Chemistry</i> , 1992 , 40, 143-160	3.7	114
39	Enhanced bacterioplankton production and respiration at intermediate salinities in the Mississippi River plume. <i>Marine Ecology - Progress Series</i> , 1992 , 87, 87-103	2.6	82
38	Denitrification and oxygen consumption in sediments of two south Texas estuaries. <i>Marine Ecology - Progress Series</i> , 1992 , 90, 157-167	2.6	44
37	Diagenesis of belowground biomass of <i>Spartina alterniflora</i> in salt-marsh sediments. <i>Limnology and Oceanography</i> , 1991 , 36, 1358-1374	4.8	178
36	Dynamics of bacterioplankton abundance and production in seagrass communities of a hypersaline lagoon. <i>Marine Ecology - Progress Series</i> , 1991 , 73, 219-230	2.6	17
35	Early diagenesis of mangrove leaves in a tropical estuary: Molecular-level analyses of neutral sugars and lignin-derived phenols. <i>Geochimica Et Cosmochimica Acta</i> , 1990 , 54, 1991-2001	5.5	125
34	Early diagenesis of mangrove leaves in a tropical estuary: Bulk chemical characterization using solid-state ¹³ C NMR and elemental analyses. <i>Geochimica Et Cosmochimica Acta</i> , 1990 , 54, 2003-2013	5.5	113
33	Effects of Acid stress on aerobic decomposition of algal and aquatic macrophyte detritus: direct comparison in a radiocarbon assay. <i>Applied and Environmental Microbiology</i> , 1990 , 56, 237-44	4.8	8
32	Kinetics of microbial degradation of vascular plant material in two wetland ecosystems. <i>Oecologia</i> , 1989 , 79, 158-167	2.9	32
31	Effects of temperature on microbial utilization of lignocellulosic detritus in a thermally impacted stream. <i>Microbial Ecology</i> , 1988 , 16, 323-30	4.4	4
30	Carbon Flow From Lignocellulose: A Simulation Analysis of a Detritus-Based Ecosystem. <i>Ecology</i> , 1988 , 69, 1525-1536	4.6	23
29	Carbon conversion efficiency for bacterial growth on lignocellulose: Implications for detritus-based food webs. <i>Limnology and Oceanography</i> , 1988 , 33, 1514-1526	4.8	0
28	Degradation of polysaccharides and lignin by ruminal bacteria and fungi. <i>Applied and Environmental Microbiology</i> , 1988 , 54, 1117-25	4.8	96
27	Adaptation of phytoplankton-degrading microbial communities to thermal reactor effluent in a new cooling reservoir. <i>Applied and Environmental Microbiology</i> , 1988 , 54, 1481-7	4.8	
26	Carbon conversion efficiency for bacterial growth on lignocellulose: Implications for detritus-based food webs. <i>Limnology and Oceanography</i> , 1988 , 33, 1514-1526	4.8	47
25	Dynamics of microbial biomass and activity in five habitats of the Okefenokee Swamp ecosystem. <i>Microbial Ecology</i> , 1987 , 14, 203-17	4.4	5
24	Depletion of ¹³ C in lignin and its implications for stable carbon isotope studies. <i>Nature</i> , 1987 , 329, 708-710	4.4	839

23 Modeling the Persistence of Lignocellulosic Detritus in Wetland Ecosystems **1987**, 357-374

22 Biogeochemical cycling of lignocellulosic carbon in marine and freshwater ecosystems: Relative contributions of procaryotes and eucaryotes¹. *Limnology and Oceanography*, **1986**, 31, 89-100 4.8 128

21 Chemical composition and in-vitro digestibility of thermochemically treated peanut hulls. *Journal of the Science of Food and Agriculture*, **1986**, 37, 632-636 4.3 18

20 Chemical composition and in-vitro digestibility of biologically degraded peanut hulls. *Journal of the Science of Food and Agriculture*, **1986**, 37, 637-651 4.3 3

19 Temporal relationship between the deposition and microbial degradation of lignocellulosic detritus in a Georgia salt marsh and the Okefenokee Swamp. *Microbial Ecology*, **1986**, 12, 291-8 4.4 26

18 Microbial utilization of dissolved organic matter from leaves of the red mangrove, *Rhizophora mangle*, in the Fresh Creek estuary, Bahamas. *Estuarine, Coastal and Shelf Science*, **1986**, 23, 607-619 2.9 74

17 Microbial degradation of the leachable and lignocellulosic components of leaves and wood from *Rhizophora mangle* in a tropical mangrove swamp. *Marine Ecology - Progress Series*, **1985**, 23, 221-230 2.6 107

16 Effects of pH and plant source on lignocellulose biodegradation rates in two wetland ecosystems, the Okefenokee Swamp and a Georgia salt marsh^{1,2,3}. *Limnology and Oceanography*, **1985**, 30, 489-499 4.8 75

15 Thermophilic anaerobic biodegradation of [C]lignin, [C]cellulose, and [C]lignocellulose preparations. *Applied and Environmental Microbiology*, **1985**, 50, 971-6 4.8 28

14 Chemical and Bacterial Pretreatment of Lignocellulosic Material to Increase Ruminant Digestibility. *Nature Biotechnology*, **1984**, 2, 805-807 44.5 7

13 Preparation, characterization, and microbial degradation of specifically radiolabeled [C]lignocelluloses from marine and freshwater macrophytes. *Applied and Environmental Microbiology*, **1984**, 47, 381-9 4.8 60

12 Anaerobic biodegradation of the lignin and polysaccharide components of lignocellulose and synthetic lignin by sediment microflora. *Applied and Environmental Microbiology*, **1984**, 47, 998-1004 4.8 260

11 Relative contributions of bacteria and fungi to rates of degradation of lignocellulosic detritus in salt-marsh sediments. *Applied and Environmental Microbiology*, **1984**, 48, 36-40 4.8 114

10 Isolation of a bacterium capable of degrading peanut hull lignin. *Applied and Environmental Microbiology*, **1983**, 46, 1201-6 4.8 31

9 Marine Organic Matter⁴⁰⁷⁻⁴⁴⁹ 6

8 Reply to comment: Controls on turnover of marine dissolved organic matter testing the null hypothesis of purely concentration-driven uptake. *Limnology and Oceanography*, 4.8 1

7 Bacterial production and transformation of dissolved neutral sugars and amino acids in seawater 2

6 Tracing the transport of colored dissolved organic matter in water masses of the Southern Beaufort Sea: relationship with hydrographic characteristics 1

5	A molecular perspective on the ageing of marine dissolved organic matter	3
4	Photoproduction of ammonium in the Southeastern Beaufort Sea and its biogeochemical implications	2
3	Dissolved organic matter composition and bioavailability reflect ecosystem productivity in the Western Arctic Ocean	4
2	Green Edge ice camp campaigns: understanding the processes controlling the under-ice Arctic phytoplankton spring bloom	3
1	Carbon fluxes in the Canadian Arctic: patterns and drivers of bacterial abundance, production and respiration on the Beaufort Sea margin	2