Ronald Benner

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82 21,773 145 202 h-index g-index citations papers 6.7 215 24,313 7.01 avg, IF L-index ext. citations ext. papers

#	Paper	IF	Citations
202	What happens to terrestrial organic matter in the ocean?. <i>Organic Geochemistry</i> , 1997 , 27, 195-212	3.1	1071
201	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
200	Depletion of 13C in lignin and its implications for stable carbon isotope studies. <i>Nature</i> , 1987 , 329, 708-	-7 5 102.4	839
199	Bulk chemical characteristics of dissolved organic matter in the ocean. <i>Science</i> , 1992 , 255, 1561-4	33.3	694
198	Bacterial utilization of different size classes of dissolved organic matter. <i>Limnology and Oceanography</i> , 1996 , 41, 41-51	4.8	664
197	Characterization of a major refractory component of marine dissolved organic matter. <i>Geochimica Et Cosmochimica Acta</i> , 2006 , 70, 2990-3010	5.5	549
196	Production of refractory dissolved organic matter by bacteria. <i>Science</i> , 2001 , 292, 917-20	33.3	468
195	Distribution and cycling of terrigenous dissolved organic matter in the ocean. <i>Nature</i> , 1997 , 386, 480-48	32 50.4	406
194	Rapid cycling of high-molecular-weight dissolved organic matter in the ocean. <i>Nature</i> , 1994 , 369, 549-5.	53 0.4	386
193	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
192	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
191	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
190	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
189	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
188	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
187	The spectral slope coefficient of chromophoric dissolved organic matter (S275 2 95) 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
186	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

185	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
184	Anaerobic biodegradation of the lignin and polysaccharide components of lignocellulose and synthetic lignin by sediment microflora. <i>Applied and Environmental Microbiology</i> , 1984 , 47, 998-1004	4.8	260
183	Photochemical reactivity of dissolved lignin in river and ocean waters. <i>Limnology and Oceanography</i> , 1998 , 43, 1297-1304	4.8	246
182	Major bacterial contribution to marine dissolved organic nitrogen. <i>Science</i> , 1998 , 281, 231-4	33.3	242
181	Major flux of terrigenous dissolved organic matter through the Arctic Ocean. <i>Limnology and Oceanography</i> , 1999 , 44, 2017-2023	4.8	236
180	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
179	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
178	Chemical composition of dissolved organic nitrogen in the ocean. <i>Nature</i> , 1997 , 390, 150-154	50.4	233
177	Chemical Composition and Reactivity 2002 , 59-90		231
176			
1/0	Composition and cycling of marine organic phosphorus. <i>Limnology and Oceanography</i> , 2001 , 46, 309-32	04.8	229
175	Composition and cycling of marine organic phosphorus. <i>Limnology and Oceanography</i> , 2001 , 46, 309-32 Marine phosphorus is selectively remineralized. <i>Nature</i> , 1998 , 393, 426-426	0 ₄ .8 50.4	229
175	Marine phosphorus is selectively remineralized. <i>Nature</i> , 1998 , 393, 426-426 Carbohydrates in phytoplankton and freshly produced dissolved organic matter. <i>Marine Chemistry</i> ,	50.4	220
175	Marine phosphorus is selectively remineralized. <i>Nature</i> , 1998 , 393, 426-426 Carbohydrates in phytoplankton and freshly produced dissolved organic matter. <i>Marine Chemistry</i> , 1998 , 63, 131-144 Competition between biological and photochemical processes in the mineralization of dissolved	50.4	220
175 174 173	Marine phosphorus is selectively remineralized. <i>Nature</i> , 1998 , 393, 426-426 Carbohydrates in phytoplankton and freshly produced dissolved organic matter. <i>Marine Chemistry</i> , 1998 , 63, 131-144 Competition between biological and photochemical processes in the mineralization of dissolved organic carbon. <i>Limnology and Oceanography</i> , 2004 , 49, 117-124	50.4 3.7 4.8	220 211 207
175 174 173	Marine phosphorus is selectively remineralized. <i>Nature</i> , 1998 , 393, 426-426 Carbohydrates in phytoplankton and freshly produced dissolved organic matter. <i>Marine Chemistry</i> , 1998 , 63, 131-144 Competition between biological and photochemical processes in the mineralization of dissolved organic carbon. <i>Limnology and Oceanography</i> , 2004 , 49, 117-124 Active cycling of organic carbon in the central Arctic Ocean. <i>Nature</i> , 1996 , 380, 697-699 Aldoses in various size fractions of marine organic matter: Implications for carbon cycling.	50.4 3·7 4.8	220 211 207 204
175 174 173 172	Marine phosphorus is selectively remineralized. <i>Nature</i> , 1998 , 393, 426-426 Carbohydrates in phytoplankton and freshly produced dissolved organic matter. <i>Marine Chemistry</i> , 1998 , 63, 131-144 Competition between biological and photochemical processes in the mineralization of dissolved organic carbon. <i>Limnology and Oceanography</i> , 2004 , 49, 117-124 Active cycling of organic carbon in the central Arctic Ocean. <i>Nature</i> , 1996 , 380, 697-699 Aldoses in various size fractions of marine organic matter: Implications for carbon cycling. <i>Limnology and Oceanography</i> , 1997 , 42, 1803-1813 Biochemical composition and size distribution of organic matter at the Pacific and Atlantic	50.4 3.7 4.8 50.4 4.8	220 211 207 204 198

167	Planktonic grazers are a potentially important source of marine dissolved organic carbon. <i>Limnology and Oceanography</i> , 1997 , 42, 1364-1374	4.8	179
166	Diagenesis of belowground biomass of Spartina alterniflora in salt-marsh sediments. <i>Limnology and Oceanography</i> , 1991 , 36, 1358-1374	4.8	178
165	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
164	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
163	The size-reactivity continuum of major bioelements in the ocean. <i>Annual Review of Marine Science</i> , 2015 , 7, 185-205	15.4	161
162	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
161	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
160	Pan-Arctic distributions of continental runoff in the Arctic Ocean. <i>Scientific Reports</i> , 2013 , 3, 1053	4.9	157
159	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
158	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
157	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
156	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
155	A molecular perspective on the ageing of marine dissolved organic matter. <i>Biogeosciences</i> , 2012 , 9, 19	35410955	5 148
154	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
153	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
152	Marine sequestration of carbon in bacterial metabolites. <i>Nature Communications</i> , 2015 , 6, 6711	17.4	132
151	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
150	Hydrogen-deficient molecules in natural riverine water samples vidence for the existence of black carbon in DOM. <i>Marine Chemistry</i> , 2004 , 92, 225-234	3.7	131

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149	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	
148	Analyses of dissolved organic carbon in seawater: the JGOFS EqPac methods comparison. <i>Marine Chemistry</i> , 1995 , 48, 91-108	3.7	128	
147	Biogeochemical cycling of lignocellulosic carbon in marine and freshwater ecosystems: Relative contributions of procaryotes and eucaryotes1. <i>Limnology and Oceanography</i> , 1986 , 31, 89-100	4.8	128	
146	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	
145	Origins and bioavailability of dissolved organic matter in groundwater. <i>Biogeochemistry</i> , 2015 , 122, 61-	78 .8	123	
144	Hydrolysis-induced racemization of amino acids. <i>Limnology and Oceanography: Methods</i> , 2005 , 3, 318-32	25 2.6	123	
143	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	
142	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	
141	Relative contributions of bacteria and fungi to rates of degradation of lignocellulosic detritus in salt-marsh sediments. <i>Applied and Environmental Microbiology</i> , 1984 , 48, 36-40	4.8	114	
140	Early diagenesis of mangrove leaves in a tropical estuary: Bulk chemical characterization using solid-state 13C NMR and elemental analyses. <i>Geochimica Et Cosmochimica Acta</i> , 1990 , 54, 2003-2013	5.5	113	
139	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	
138	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	
137	Arctic system on trajectory to new, seasonally ice-free state. <i>Eos</i> , 2005 , 86, 309	1.5	109	
136	Microbial degradation of the leachable and lignocellulosic components of leaves and wood from Rhizophora mangle in a tropical mangrove swamp. <i>Marine Ecology - Progress Series</i> , 1985 , 23, 221-230	2.6	107	
135	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	
134	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	
133	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	
132	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	

131	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
130	Degradation of polysaccharides and lignin by ruminal bacteria and fungi. <i>Applied and Environmental Microbiology</i> , 1988 , 54, 1117-25	4.8	96
129	Bacterial carbon metabolism in the Amazon River system. <i>Limnology and Oceanography</i> , 1995 , 40, 1262-	14280	95
128	Dissolved organic carbon cycling in a subtropical seagrass-dominated lagoon. <i>Marine Ecology - Progress Series</i> , 1999 , 180, 149-160	2.6	92
127	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
126	Marine organic phosphorus cycling; novel insights from nuclear magnetic resonance. <i>Numerische Mathematik</i> , 1999 , 299, 724-737	5.3	90
125	Plankton respiration and carbon flux through bacterioplankton on the Louisiana shelf. <i>Limnology and Oceanography</i> , 1994 , 39, 1259-1275	4.8	90
124	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
123	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
122	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
121	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
120	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
119	Characterization of carbohydrates during early diagenesis of five vascular plant tissues. <i>Organic Geochemistry</i> , 1999 , 30, 83-94	3.1	79
118	Comparative analyses of DOC and DON in natural waters. <i>Marine Chemistry</i> , 1993 , 41, 121-134	3.7	79
117	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
116	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
115	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
114	Effects of pH and plant source on lignocellulose biodegradation rates in two wetland ecosystems, the Okefenokee Swamp and a Georgia salt marsh1,2,3. <i>Limnology and Oceanography</i> , 1985 , 30, 489-499	4.8	75

113	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	
112	Microbial utilization of dissolved organic matter from leaves of the red mangrove, Rhizophora mangle, in the Fresh Creek estuary, Bahamas. <i>Estuarine, Coastal and Shelf Science</i> , 1986 , 23, 607-619	2.9	74	
111	Molecular Indicators of the Bioavailability of Dissolved Organic Matter 2003 , 121-137		72	
110	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, 123-1	13:4	63	
109	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	
108	Floodplain influence on dissolved organic matter composition and export from the MississippiAtchafalaya River system to the Gulf of Mexico. <i>Limnology and Oceanography</i> , 2012 , 57, 1149-1160	4.8	60	
107	Preparation, characterization, and microbial degradation of specifically radiolabeled [C]lignocelluloses from marine and freshwater macrophytes. <i>Applied and Environmental Microbiology</i> , 1984 , 47, 381-9	4.8	60	
106	The chemical composition of dissolved organic matter in seawater. <i>Chemical Geology</i> , 1993 , 107, 503-50	7 4.2	59	
105	Decomposition of senescent blades of the seagrass Halodule wrightii in a subtropical lagoon. <i>Marine Ecology - Progress Series</i> , 1993 , 94, 191-205	2.6	58	
104	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	
103	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	
102	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	
101	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	
100	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	
99	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	
98	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	
97	The roles of microorganisms in litter decomposition and soil formation. <i>Biogeochemistry</i> , 2014 , 118, 471	-48 6	51	
96	Dissolved organic matter composition and bioavailability reflect ecosystem productivity in the Western Arctic Ocean. <i>Biogeosciences</i> , 2012 , 9, 4993-5005	4.6	50	

95	The microbial carbon pump and the oceanic recalcitrant dissolved organic matter pool. <i>Nature Reviews Microbiology</i> , 2011 , 9, 555-555	22.2	50
94	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
93	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
92	Ecosystem metabolism in a subtropical, seagrass-dominated lagoon. <i>Marine Ecology - Progress Series</i> , 1998 , 173, 1-12	2.6	47
91	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
90	Measurement of dissolved organic carbon and nitrogen in natural waters: Workshop report. <i>Marine Chemistry</i> , 1993 , 41, 5-10	3.7	46
89	Photoproduction of ammonium in the southeastern Beaufort Sea and its biogeochemical implications. <i>Biogeosciences</i> , 2012 , 9, 3047-3061	4.6	45
88	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
87	Denitrification and oxygen consumption in sediments of two south Texas estuaries. <i>Marine Ecology - Progress Series</i> , 1992 , 90, 157-167	2.6	44
86	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
85	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
84	What happens to terrestrial organic matter in the ocean?. <i>Marine Chemistry</i> , 2004 , 92, 307-310	3.7	42
83	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
82	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
81	Cycling of dissolved and particulate organic matter at station Aloha: Insights from 13C 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
80	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
79	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
78	Unveiling the enigma of refractory carbon in the ocean. <i>National Science Review</i> , 2018 , 5, 459-463	10.8	38

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77	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
76	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
75	Evolving paradigms in biological carbon cycling in the ocean. <i>National Science Review</i> , 2018 , 5, 481-499	10.8	34
74	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
73	Mineralization of organic material and bacterial dynamics in Mississippi River plume water. <i>Estuaries and Coasts</i> , 1994 , 17, 816		34
72	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
71	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
70	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
69	Nutrient cycling in the water column of a subtropical seagrass meadow. <i>Marine Ecology - Progress Series</i> , 1999 , 188, 51-62	2.6	33
68	Biosequestration of carbon by heterotrophic microorganisms. <i>Nature Reviews Microbiology</i> , 2011 , 9, 75		
		22.2	32
67	Kinetics of microbial degradation of vascular plant material in two wetland ecosystems. <i>Oecologia</i> , 1989 , 79, 158-167	2.9	32
67 66	Kinetics of microbial degradation of vascular plant material in two wetland ecosystems. <i>Oecologia</i> ,		
	Kinetics of microbial degradation of vascular plant material in two wetland ecosystems. <i>Oecologia</i> , 1989 , 79, 158-167 Does oxygen exposure time control the extent of organic matter decomposition in peatlands?.	2.9	32
66	Kinetics of microbial degradation of vascular plant material in two wetland ecosystems. <i>Oecologia</i> , 1989 , 79, 158-167 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 Biochemical indicators for the bioavailability of organic carbon in ground water. <i>Ground Water</i> ,	2.9	32
66 65	Kinetics of microbial degradation of vascular plant material in two wetland ecosystems. <i>Oecologia</i> , 1989, 79, 158-167 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 Biochemical indicators for the bioavailability of organic carbon in ground water. <i>Ground Water</i> , 2009, 47, 108-21 Major contribution from mesopelagic plankton to heterotrophic metabolism in the upper ocean.	2.9 3·7 2·4	32 31 31
66 65 64	Kinetics of microbial degradation of vascular plant material in two wetland ecosystems. <i>Oecologia</i> , 1989, 79, 158-167 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 Biochemical indicators for the bioavailability of organic carbon in ground water. <i>Ground Water</i> , 2009, 47, 108-21 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 Isolation of a bacterium capable of degrading peanut hull lignin. <i>Applied and Environmental</i>	2.9 3·7 2.4	32 31 31 31
66656463	Kinetics of microbial degradation of vascular plant material in two wetland ecosystems. <i>Oecologia</i> , 1989, 79, 158-167 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 Biochemical indicators for the bioavailability of organic carbon in ground water. <i>Ground Water</i> , 2009, 47, 108-21 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 Isolation of a bacterium capable of degrading peanut hull lignin. <i>Applied and Environmental Microbiology</i> , 1983, 46, 1201-6 P limitation of respiration in the Sargasso Sea and uncoupling of bacteria from P regeneration in	2.9 3·7 2.4 2.5 4.8	32 31 31 31

59	Thermophilic anaerobic biodegradation of [C]lignin, [C]cellulose, and [C]lignocellulose preparations. <i>Applied and Environmental Microbiology</i> , 1985 , 50, 971-6	4.8	28
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7	Reply to comment: Controls on turnover of marine dissolved organic matterlesting the null hypothesis of purely concentration-driven uptake. <i>Limnology and Oceanography</i> ,	4.8	1
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