Bo Thamdrup

List of Publications by Year
in descending order

168 papers	19,843 citations	12330 69 h-index	11308 136 g-index
179 all docs	179 docs citations	179 times ranked	11390 citing authors

#	Article	IF	Citations
1	Production of N2 through Anaerobic Ammonium Oxidation Coupled to Nitrate Reduction in Marine Sediments. Applied and Environmental Microbiology, 2002, 68, 1312-1318.	3.1	917
2	The anaerobic degradation of organic matter in Danish coastal sediments: Iron reduction, manganese reduction, and sulfate reduction. Geochimica Et Cosmochimica Acta, 1993, 57, 3867-3883.	3.9	806
3	Pathways of organic carbon oxidation in three continental margin sediments. Marine Geology, 1993, 113, 27-40.	2.1	680
4	Calibration of Sulfate Levels in the Archean Ocean. Science, 2002, 298, 2372-2374.	12.6	671
5	Manganese, iron and sulfur cycling in a coastal marine sediment, Aarhus bay, Denmark. Geochimica Et Cosmochimica Acta, 1994, 58, 5115-5129.	3.9	584
6	N2 production by the anammox reaction in the anoxic water column of Golfo Dulce, Costa Rica. Nature, 2003, 422, 606-608.	27.8	582
7	The production of 34S-depleted sulfide during bacterial disproportionation of elemental sulfur. Science, 1994, 266, 1973-1975.	12.6	545
8	A Cryptic Sulfur Cycle in Oxygen-Minimumâ€“Zone Waters off the Chilean Coast. Science, 2010, 330, 1375-1378.	12.6	545
9	Anaerobic ammonium oxidation (anammox) in the marine environment. Research in Microbiology, 2005, 156, 457-464.	2.1	538
10	Bacterial Manganese and Iron Reduction in Aquatic Sediments. Advances in Microbial Ecology, 2000, , 41-84.	0.1	506
11	Linking crenarchaeal and bacterial nitrification to anammox in the Black Sea. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 7104-7109.	7.1	493
12	The Archean Sulfur Cycle and the Early History of Atmospheric Oxygen. Science, 2000, 288, 658-661.	12.6	430
13	Concentration and transport of nitrate by the mat-forming sulphur bacterium Thioploca. Nature, 1995, 374, 713-715.	27.8	410
14	Bacterial Disproportionation of Elemental Sulfur Coupled to Chemical Reduction of Iron or Manganese. Applied and Environmental Microbiology, 1993, 59, 101-108.	3.1	363
15	Towards a consistent classification scheme for geochemical environments, or, why we wish the term â€˜suboxicâ€™ would go away. Geobiology, 2009, 7, 385-392.	2.4	324
16	Anaerobic ammonium-oxidizing bacteria in marine environments: widespread occurrence but low diversity. Environmental Microbiology, 2007, 9, 1476-1484.	3.8	307
17	Elemental Sulfur and Thiosulfate Disproportionation by Desulfocapsa sulfoexigens sp. nov., a New Anaerobic Bacterium Isolated from Marine Surface Sediment. Applied and Environmental Microbiology, 1998, 64, 119-125.	3.1	300
18	Pathways of carbon oxidation in continental margin sediments off central Chile. Limnology and Oceanography, 1996, 41, 1629-1650.	3.1	292

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19	Factors Controlling Anaerobic Ammonium Oxidation with Nitrite in Marine Sediments. Applied and Environmental Microbiology, 2002, 68, 3802-3808.	3.1	280
20	Anaerobic ammonium oxidation in a tropical freshwater system (Lake Tanganyika). Environmental Microbiology, 2006, 8, 1857-1863.	3.8	278
21	Anaerobic ammonium oxidation in the oxygen-deficient waters off northern Chile. Limnology and Oceanography, 2006, 51, 2145-2156.	3.1	277
22	New Pathways and Processes in the Global Nitrogen Cycle. Annual Review of Ecology, Evolution, and Systematics, 2012, 43, 407-428.	8.3	256
23	Anammox and denitrification in the oxygen minimum zone of the eastern South Pacific. Limnology and Oceanography, 2012, 57, 1331-1346.	3.1	243
24	Oxygen and sulfur isotope fractionation during anaerobic bacterial disproportionation of elemental sulfur. Geochimica Et Cosmochimica Acta, 2001, 65, 1601-1609.	3.9	225
25	Determination of ultraâ€low oxygen concentrations in oxygen minimum zones by the STOX sensor. Limnology and Oceanography: Methods, 2009, 7, 371-381.	2.0	222
26	Oxygen at Nanomolar Levels Reversibly Suppresses Process Rates and Gene Expression in Anammox and Denitrification in the Oxygen Minimum Zone off Northern Chile. MBio, 2014, 5, e01966.	4.1	216
27	Iron-bound phosphorus in marine sediments as measured by bicarbonate-dithionite extraction. Hydrobiologia, 1993, 253, 47-59.	2.0	213
28	Ammonium and nitrite oxidation at nanomolar oxygen concentrations in oxygen minimum zone waters. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 10601-10606.	7.1	195
29	Widespread functional anoxia in the oxygen minimum zone of the Eastern South Pacific. Deep-Sea Research Part I: Oceanographic Research Papers, 2012, 65, 36-45.	1.4	190
30	Rates and regulation of anaerobic ammonium oxidation and denitrification in the Black Sea. Limnology and Oceanography, 2008, 53, 23-36.	3.1	184
31	N2 production rates limited by nitrite availability in the Bay of Bengal oxygen minimum zone. Nature Geoscience, 2017, 10, 24-29.	12.9	180
32	Distribution of bacterial populations in a stratified fjord (Mariager Fjord, Denmark) quantified by in situ hybridization and related to chemical gradients in the water column. Applied and Environmental Microbiology, 1996, 62, 1391-1404.	3.1	177
33	Size-fraction partitioning of community gene transcription and nitrogen metabolism in a marine oxygen minimum zone. ISME Journal, 2015, 9, 2682-2696.	9.8	169
34	Seasonal carbon and nutrient mineralization in a high-Arctic coastal marine sediment, Young Sound, Northeast Greenland. Marine Ecology - Progress Series, 1998, 175, 261-276.	1.9	164
35	Microbial Manganese and Sulfate Reduction in Black Sea Shelf Sediments. Applied and Environmental Microbiology, 2000, 66, 2888-2897.	3.1	161
36	SAR11 bacteria linked to ocean anoxia and nitrogen loss. Nature, 2016, 536, 179-183.	27.8	160

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37	Temperature dependence of microbial degradation of organic matter in marine sediments:polysaccharide hydrolysis, oxygen consumption, and sulfate reduction. Marine Ecology - Progress Series, 1998, 165, 59-70.	1.9	160
38	Anaerobic ammonium oxidation by marine and freshwater planctomycete-like bacteria. Applied Microbiology and Biotechnology, 2003, 63, 107-114.	3.6	156
39	Dynamic Modeling of Early Diagenesis and Nutrient Cycling. A Case Study in an Artic Marine Sediment. Numerische Mathematik, 2003, 303, 905-955.	1.4	149
40	Isotope fractionation and sulfur metabolism by pure and enrichment cultures of elemental sulfurâ€disproportionating bacteria. Limnology and Oceanography, 1998, 43, 253-264.	3.1	148
41	Influence of water column dynamics on sulfide oxidation and other major biogeochemical processes in the chemocline of Mariager Fjord (Denmark). Marine Chemistry, 2001, 74, 29-51.	2.3	142
42	Nitrogen removal in marine environments: recent findings and future research challenges. Marine Chemistry, 2005, 94, 125-145.	2.3	142
43	Dissimilatory nitrate reduction to ammonium coupled to Fe(II) oxidation in sediments of a periodically hypoxic estuary. Limnology and Oceanography, 2016, 61, 365-381.	3.1	136
44	Anaerobic oxidation of methane in an ironâ€rich Danish freshwater lake sediment. Limnology and Oceanography, 2013, 58, 546-554.	3.1	132
45	Manganese oxidation and in situ manganese fluxes from a coastal sediment. Geochimica Et Cosmochimica Acta, 1994, 58, 2563-2570.	3.9	128
46	Anaerobic sulfide oxidation and stable isotope fractionation associated with bacterial sulfur disproportionation in the presence of MnO2. Geochimica Et Cosmochimica Acta, 2001, 65, 1573-1581.	3.9	128
47	Anoxic incubation of sediment in gas-tight plastic bags: a method for biogeochemical process studies. Marine Ecology - Progress Series, 2000, 208, 273-282.	1.9	127
48	The fate of ammonium in anoxic manganese oxide-rich marine sediment. Geochimica Et Cosmochimica Acta, 2000, 64, 4157-4164.	3.9	126
49	Rates and pathways of carbon oxidation in permanently cold Arctic sediments. Marine Ecology - Progress Series, 1999, 180, 7-21.	1.9	119
50	Temperature dependence of aerobic respiration in a coastal sediment. FEMS Microbiology Ecology, 1998, 25, 189-200.	2.7	114
51	Effects of Specific Inhibitors on Anammox and Denitrification in Marine Sediments. Applied and Environmental Microbiology, 2007, 73, 3151-3158.	3.1	113
52	NC10 bacteria in marine oxygen minimum zones. ISME Journal, 2016, 10, 2067-2071.	9.8	112
53	Anammox bacteria and the anaerobic oxidation of ammonium in the oxygen minimum zone off northern Chile. Deep-Sea Research Part II: Topical Studies in Oceanography, 2009, 56, 1021-1031.	1.4	105
54	Sulfur and iron cycling in a coastal sediment: Radiotracer studies and seasonal dynamics. Biogeochemistry, 1994, 27, 129.	3.5	101

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55	Rates and regulation of microbial iron reduction in sediments of the Baltic-North Sea transition. Biogeochemistry, 2003, 65, 295-317.	3.5	101
56	Nitrogen losses in anoxic marine sediments driven by Thioplocaâ€“anammox bacterial consortia. Nature, 2013, 500, 194-198.	27.8	96
57	Controls on Mo isotope fractionations in a Mn-rich anoxic marine sediment, Gullmar Fjord, Sweden. Chemical Geology, 2012, 296-297, 73-82.	3.3	95
58	Three manganese oxide-rich marine sediments harbor similar communities of acetate-oxidizing manganese-reducing bacteria. ISME Journal, 2012, 6, 2078-2090.	9.8	95
59	Nitrogen cycling in a deep ocean margin sediment (Sagami Bay, Japan). Limnology and Oceanography, 2009, 54, 723-734.	3.1	94
60	Anaerobic Methanotrophic Archaea of the ANME-2d Cluster Are Active in a Low-sulfate, Iron-rich Freshwater Sediment. Frontiers in Microbiology, 2017, 8, 619.	3.5	91
61	Oxygen and nitrogen production by an ammonia-oxidizing archaeon. Science, 2022, 375, 97-100.	12.6	91
62	The Response of the Microbial Community of Marine Sediments to Organic Carbon Input under Anaerobic Conditions. Systematic and Applied Microbiology, 1999, 22, 237-248.	2.8	89
63	Effect of Low Sulfate Concentrations on Lactate Oxidation and Isotope Fractionation during Sulfate Reduction by Archaeoglobus fulgidus Strain Z. Applied and Environmental Microbiology, 2005, 71, 3770-3777.	3.1	88
64	Temperature dependence of oxygen respiration, nitrogen mineralization, and nitrification in Arctic sediments. Aquatic Microbial Ecology, 1998, 15, 191-199.	1.8	85
65	34S/32S and18O/16O Fractionation During Sulfur Disproportionation byDesulfobulbus propionicus. Geomicrobiology Journal, 2005, 22, 219-226.	2.0	84
66	Fate of elemental sulfur in an intertidal sediment. FEMS Microbiology Ecology, 1996, 19, 95-103.	2.7	83
67	Vertical partitioning of nitrogenâ€loss processes across the oxicâ€anoxic interface of an oceanic oxygen minimum zone. Environmental Microbiology, 2014, 16, 3041-3054.	3.8	83
68	Extracellular Electron Uptake by Two Methanosarcina Species. Frontiers in Energy Research, 2019, 7, .	2.3	80
69	Experimental Incubations Elicit Profound Changes in Community Transcription in OMZ Bacterioplankton. PLoS ONE, 2012, 7, e37118.	2.5	79
70	Pathways, rates, and regulation of N2 production in the chemocline of an anoxic basin, Mariager Fjord, Denmark. Marine Chemistry, 2009, 113, 102-113.	2.3	75
71	Biogeochemical and metagenomic analysis of nitrite accumulation in the <scp>G</scp>ulf of <scp>M</scp>exico hypoxic zone. Limnology and Oceanography, 2015, 60, 1733-1750.	3.1	72
72	Pathways of organic carbon oxidation in a deep lacustrine sediment, Lake Michigan. Limnology and Oceanography, 2004, 49, 2046-2057.	3.1	71

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73	The fate of nitrogen is linked to iron(II) availability in a freshwater lake sediment. Geochimica Et Cosmochimica Acta, 2017, 205, 84-99.	3.9	71
74	Benthic carbon mineralization in a high-Arctic sound (Young Sound, NE Greenland). Marine Ecology - Progress Series, 2000, 206, 59-71.	1.9	71
75	Thiosulfate and sulfite distributions in porewater of marine sediments related to manganese, iron, and sulfur geochemistry. Geochimica Et Cosmochimica Acta, 1994, 58, 67-73.	3.9	70
76	Conductive Particles Enable Syntrophic Acetate Oxidation between Geobacter and Methanosarcina from Coastal Sediments. MBio, 2018, 9, .	4.1	69
77	High-resolution metal gradients measured by in situ DGT/DET deployment in Black Sea sediments using an autonomous benthic lander. Limnology and Oceanography, 2001, 46, 982-988.	3.1	67
78	Significance of archaeal nitrification in hypoxic waters of the Baltic Sea. ISME Journal, 2015, 9, 1319-1332.	9.8	67
79	Nitrate-dependent anaerobic methane oxidation in a freshwater sediment. Geochimica Et Cosmochimica Acta, 2014, 132, 141-150.	3.9	65
80	Iron-dependent nitrogen cycling in a ferruginous lake and the nutrient status of Proterozoic oceans. Nature Geoscience, 2017, 10, 217-221.	12.9	61
81	Denitrification and DNRA at the Baltic Sea oxic-anoxic interface: Substrate spectrum and kinetics. Limnology and Oceanography, 2016, 61, 1900-1915.	3.1	60
82	A critical assessment of the occurrence and extend of oxygen contamination during anaerobic incubations utilizing commercially available vials. Journal of Microbiological Methods, 2012, 88, 147-154.	1.6	59
83	Pathways and Controls of N₂O Production in Nitritationâ€“Anammox Biomass. Environmental Science & Technology, 2017, 51, 8981-8991.	10.0	59
84	Methane production by microbial mats under low sulphate concentrations. Geobiology, 2004, 2, 87-96.	2.4	55
85	Anaerobic Nitrogen Turnover by Sinking Diatom Aggregates at Varying Ambient Oxygen Levels. Frontiers in Microbiology, 2016, 7, 98.	3.5	55
86	Vivianite formation and its role in phosphorus retention in Lake Ã˜rn, Denmark. Chemical Geology, 2015, 409, 42-53.	3.3	53
87	Anaerobic ammonium-oxidising bacteria: A biological source of the bacteriohopanetetrol stereoisomer in marine sediments. Geochimica Et Cosmochimica Acta, 2014, 140, 50-64.	3.9	49
88	Manganese and iron reduction dominate organic carbon oxidation in surface sediments of the deep Ulleung Basin, East Sea. Biogeosciences, 2017, 14, 941-958.	3.3	49
89	Hadal trenches are dynamic hotspots for early diagenesis in the deep sea. Communications Earth & Environment, 2021, 2, .	6.8	49
90	Temporal dynamics of nitrogen loss in the coastal upwelling ecosystem off central Chile: Evidence of autotrophic denitrification through sulfide oxidation. Limnology and Oceanography, 2014, 59, 1865-1878.	3.1	48

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91	Nitrogen Loss from Pristine Carbonate-Rock Aquifers of the Hainich Critical Zone Exploratory (Germany) Is Primarily Driven by Chemolithoautotrophic Anammox Processes. Frontiers in Microbiology, 2017, 8, 1951.	3.5	48
92	Copepod carcasses as microbial hot spots for pelagic denitrification. Limnology and Oceanography, 2015, 60, 2026-2036.	3.1	47
93	Denitrification, anaerobic ammonium oxidation, and dissimilatory nitrate reduction to ammonium in an East African Great Lake (Lake Kivu). Limnology and Oceanography, 2018, 63, 687-701.	3.1	46
94	Anaerobic methane oxidation is an important sink for methane in the ocean's largest oxygen minimum zone. Limnology and Oceanography, 2019, 64, 2569-2585.	3.1	46
95	Single cell genomic and transcriptomic evidence for the use of alternative nitrogen substrates by anammox bacteria. ISME Journal, 2018, 12, 2706-2722.	9.8	45
96	Baltic Sea methanogens compete with acetogens for electrons from metallic iron. ISME Journal, 2019, 13, 3011-3023.	9.8	45
97	Preface. Advances in Marine Biology, 2005, 48, xi-xii.	1.4	44
98	Metagenomic Binning Recovers a Transcriptionally Active Gammaproteobacterium Linking Methanotrophy to Partial Denitrification in an Anoxic Oxygen Minimum Zone. Frontiers in Marine Science, 2017, 4, .	2.5	44
99	Identification of acetate-oxidizing bacteria in a coastal marine surface sediment by RNA-stable isotope probing in anoxic slurries and intact cores. FEMS Microbiology Ecology, 2013, 84, 373-386.	2.7	41
100	Stark Contrast in Denitrification and Anammox across the Deep Norwegian Trench in the Skagerrak. Applied and Environmental Microbiology, 2013, 79, 7381-7389.	3.1	41
101	Nitrogen isotope dynamics and fractionation during sedimentary denitrification in Boknis Eck, Baltic Sea. Biogeosciences, 2013, 10, 3079-3088.	3.3	41
102	Metabolic potential and in situ activity of marine Marinimicrobia bacteria in an anoxic water column. Environmental Microbiology, 2017, 19, 4392-4416.	3.8	40
103	Benthic Respiration in Aquatic Sediments. , 2000, , 86-103.		39
104	Low nitrous oxide production through nitrifier-denitrification in intermittent-feed high-rate nitritation reactors. Water Research, 2017, 123, 429-438.	11.3	36
105	Sulfur cycling in oceanic oxygen minimum zones. Limnology and Oceanography, 2021, 66, 2360-2392.	3.1	34
106	Oxygenation of an anoxic fjord basin strongly stimulates benthic denitrification and DNRA. Biogeochemistry, 2015, 126, 131-152.	3.5	33
107	The fate of fixed nitrogen in marine sediments with low organic loading: an in situ study. Biogeosciences, 2017, 14, 285-300.	3.3	33
108	DNA- and RNA-SIP Reveal Nitrospira spp. as Key Drivers of Nitrification in Groundwater-Fed Biofilters. MBio, 2019, 10, .	4.1	33

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109	Construction of STOX Oxygen Sensors and Their Application for Determination of O2 Concentrations in Oxygen Minimum Zones. Methods in Enzymology, 2011, 486, 325-341.	1.0	30
110	Novel anammox bacteria and nitrogen loss from Lake Superior. Scientific Reports, 2017, 7, 13757.	3.3	30
111	Challenges in using allylthiourea and chlorate as specific nitrification inhibitors. Chemosphere, 2017, 182, 301-305.	8.2	30
112	Mathematical simulation of the diel O, S, and C biogeochemistry of a hypersaline microbial mat. FEMS Microbiology Ecology, 2005, 52, 377-395.	2.7	29
113	Hydrogen, acetate, and lactate as electron donors for microbial manganese reduction in a manganese-rich coastal marine sediment. FEMS Microbiology Ecology, 2014, 87, 733-745.	2.7	29
114	The isotope effect of denitrification in permeable sediments. Geochimica Et Cosmochimica Acta, 2014, 133, 156-167.	3.9	29
115	Microbial community structure in hadal sediments: high similarity along trench axes and strong changes along redox gradients. ISME Journal, 2021, 15, 3455-3467.	9.8	29
116	Composition and diagenesis of neutral carbohydrates in sediments of the Baltic-North Sea transition. Geochimica Et Cosmochimica Acta, 2005, 69, 4085-4099.	3.9	28
117	High Sulfur Isotope Fractionation Associated with Anaerobic Oxidation of Methane in a Low-Sulfate, Iron-Rich Environment. Frontiers in Earth Science, 2016, 4, .	1.8	28
118	Intracellular Nitrate of Marine Diatoms as a Driver of Anaerobic Nitrogen Cycling in Sinking Aggregates. Frontiers in Microbiology, 2016, 7, 1669.	3.5	28
119	Vertical segregation among pathways mediating nitrogen loss (N₂ and N₂O) Tj ETQq1 1 0.784314 rgBT /Ove 4795-4813.	3.3	28
120	Seasonal carbon cycling in a Greenlandic fjord: an integrated pelagic and benthic study. Marine Ecology - Progress Series, 2015, 539, 1-17.	1.9	28
121	Carbon fixation rates in groundwater similar to those in oligotrophic marine systems. Nature Geoscience, 2022, 15, 561-567.	12.9	28
122	Fixed-Nitrogen Loss Associated with Sinking Zooplankton Carcasses in a Coastal Oxygen Minimum Zone (Golfo Dulce, Costa Rica). Frontiers in Marine Science, 2017, 4, .	2.5	26
123	Heterotrophic Carbon Metabolism. Advances in Marine Biology, 2005, 48, 129-166.	1.4	24
124	High mercury accumulation in deep-ocean hadal sediments. Scientific Reports, 2021, 11, 10970.	3.3	24
125	ANAEROBIC AMMONIUM OXIDATION IN THE MARINE ENVIRONMENT. , 2006, , 311-335.		23
126	Isotope fractionation and isotope decoupling during anammox and denitrification in marine sediments. Limnology and Oceanography, 2016, 61, 610-624.	3.1	23

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127	Controls of H2S, Fe2 +, and Mn2 + on Microbial NO3â€“-Reducing Processes in Sediments of an Eutrophic Lake. Frontiers in Microbiology, 2020, 11, 1158.	3.5	23
128	A modelâ€based insight into the coupling of nitrogen and sulfur cycles in a coastal upwelling system. Journal of Geophysical Research G: Biogeosciences, 2014, 119, 264-285.	3.0	22
129	A new diet for methane oxidizers. Science, 2016, 351, 658-658.	12.6	21
130	Anammox and partial nitritation in the mainstream of a wastewater treatment plant in a temperate region (Denmark). Water Science and Technology, 2019, 79, 1397-1405.	2.5	21
131	Anaerobic methane oxidation and aerobic methane production in an east African great lake (Lake Kivu). Journal of Great Lakes Research, 2018, 44, 1183-1193.	1.9	20
132	Anammox bacteria drive fixed nitrogen loss in hadal trench sediments. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	20
133	The Phosphorus Cycle. Advances in Marine Biology, 2005, 48, 419-440.	1.4	19
134	Distinct nitrogen cycling and steep chemical gradients in Trichodesmium colonies. ISME Journal, 2020, 14, 399-412.	9.8	19
135	Rates of N2 production and diversity and abundance of functional genes associated with denitrification and anaerobic ammonium oxidation in the sediment of the Amundsen Sea Polynya, Antarctica. Deep-Sea Research Part II: Topical Studies in Oceanography, 2016, 123, 113-125.	1.4	18
136	Spatial variability of prokaryotic and viral abundances in the Kermadec and Atacama Trench regions. Limnology and Oceanography, 2021, 66, 2095-2109.	3.1	18
137	Influence of settling organic matter quantity and quality on benthic nitrogen cycling. Limnology and Oceanography, 2021, 66, 1882-1895.	3.1	18
138	Impacts of typhoon-induced heavy rainfalls and resultant freshwater runoff on the partitioning of organic carbon oxidation and nutrient dynamics in the intertidal sediments of the Han River estuary, Yellow Sea. Science of the Total Environment, 2019, 691, 858-867.	8.0	16
139	Competition for inorganic carbon between oxygenic and anoxygenic phototrophs in a hypersaline microbial mat, <scp>G</scp>uerrero <scp>N</scp>egro, <scp>M</scp>exico. Environmental Microbiology, 2013, 15, 1532-1550.	3.8	15
140	Nitrate reduction pathways and interactions with iron in the drainage water infiltration zone of a riparian wetland soil. Biogeochemistry, 2020, 150, 235-255.	3.5	15
141	The Nitrogen Cycle. Advances in Marine Biology, 2005, , 205-267.	1.4	14
142	The Methane Cycle. Advances in Marine Biology, 2005, 48, 383-418.	1.4	14
143	Temperature dependence of aerobic respiration in a coastal sediment. FEMS Microbiology Ecology, 1998, 25, 189-200.	2.7	14
144	The Silicon Cycle. Advances in Marine Biology, 2005, 48, 441-463.	1.4	13

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145	N₂ production through denitrification and anammox across the continental margin (shelfâ€“slopeâ€“rise) of the Ulleung Basin, East Sea. Limnology and Oceanography, 2018, 63, S410.	3.1	13
146	Nutrient availability limits biological production in Arctic sea ice melt ponds. Polar Biology, 2017, 40, 1593-1606.	1.2	12
147	Thermodynamics and Microbial Metabolism. Advances in Marine Biology, 2005, 48, 65-94.	1.4	11
148	Effect of settled diatomâ€aggregates on benthic nitrogen cycling. Limnology and Oceanography, 2018, 63, 431-444.	3.1	11
149	Coupled nitrification and N2 gas production as a cryptic process in oxic riverbeds. Nature Communications, 2021, 12, 1217.	12.8	11
150	Sulfateâ€•and ironâ€dependent anaerobic methane oxidation occurring sideâ€byâ€side in freshwater lake sediment. Limnology and Oceanography, 2022, 67, 231-246.	3.1	11
151	Nitrogen cycling and bacterial community structure of sinking and aging diatom aggregates. Aquatic Microbial Ecology, 2017, 79, 85-99.	1.8	10
152	Carbon Fixation and Phototrophy. Advances in Marine Biology, 2005, 48, 95-127.	1.4	9
153	Benthic mineralization and solute exchange on a Celtic Sea sand-bank (Jones Bank). Progress in Oceanography, 2013, 117, 64-75.	3.2	8
154	The regulation of oxygen to low concentrations in marine oxygen-minimum zones. Journal of Marine Research, 2019, 77, 297-324.	0.3	8
155	Aerobic and anaerobic methane oxidation in a seasonally anoxic basin. Limnology and Oceanography, 2022, 67, 1257-1273.	3.1	8
156	Freshwater copepod carcasses as pelagic microsites of dissimilatory nitrate reduction to ammonium. FEMS Microbiology Ecology, 2018, 94, .	2.7	7
157	A fast numerical solution to the general mass-conservation equation for solutes and solids in aquatic sediments. Journal of Marine Research, 2007, 65, 317-343.	0.3	6
158	New Players in an Ancient Cycle. Science, 2007, 317, 1508-1509.	12.6	6
159	Anaerobic methane oxidation in a coastal oxygen minimum zone: spatial and temporal dynamics. Environmental Microbiology, 2022, 24, 2361-2379.	3.8	5
160	Coastal oceanic nitrogen loss. Nature Geoscience, 2013, 6, 160-161.	12.9	4
161	Benthic nitrogen cycling in the North Sea. Continental Shelf Research, 2019, 185, 31-36.	1.8	4
162	Acetate-utilizing microbial communities revealed by stable-isotope probing in sediment underlying the upwelling system of the Ulleung Basin, East Sea. Marine Ecology - Progress Series, 2020, 634, 45-61.	1.9	4

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163	The Archean Atmosphere and Sedimentary Sulfides. Science, 2000, 289, 1297-1298.	12.6	3
164	Microbial bioremediation of produced water under different redox conditions in marine sediments. Water Research, 2022, 218, 118428.	11.3	3
165	Structure and Growth of Microbial Populations. Advances in Marine Biology, 2005, 48, 23-64.	1.4	2
166	Microbial Ecosystems. Advances in Marine Biology, 2005, 48, 465-506.	1.4	2
167	Distribution of bacterial populations in a stratified fjord (mariager fjord, denmark) quantified by in situ hybridization and related to chemical gradients in the water column. Applied and Environmental Microbiology, 1996, 62, 3915-3915.	3.1	1
168	Nitrogen cycling in sub-oxic water colmns. Gayana, 0, 70, .	0.1	0