

Bo Thamdrup

List of Publications by Year in descending order

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168
papers

19,843
citations

12322

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179
times ranked

11390
citing authors

#	ARTICLE	IF	CITATIONS
1	Production of N ₂ through Anaerobic Ammonium Oxidation Coupled to Nitrate Reduction in Marine Sediments. <i>Applied and Environmental Microbiology</i> , 2002, 68, 1312-1318.	1.4	917
2	The anaerobic degradation of organic matter in Danish coastal sediments: Iron reduction, manganese reduction, and sulfate reduction. <i>Geochimica Et Cosmochimica Acta</i> , 1993, 57, 3867-3883.	1.6	806
3	Pathways of organic carbon oxidation in three continental margin sediments. <i>Marine Geology</i> , 1993, 113, 27-40.	0.9	680
4	Calibration of Sulfate Levels in the Archean Ocean. <i>Science</i> , 2002, 298, 2372-2374.	6.0	671
5	Manganese, iron and sulfur cycling in a coastal marine sediment, Aarhus bay, Denmark. <i>Geochimica Et Cosmochimica Acta</i> , 1994, 58, 5115-5129.	1.6	584
6	N ₂ production by the anammox reaction in the anoxic water column of Golfo Dulce, Costa Rica. <i>Nature</i> , 2003, 422, 606-608.	13.7	582
7	The production of ³⁴ S-depleted sulfide during bacterial disproportionation of elemental sulfur. <i>Science</i> , 1994, 266, 1973-1975.	6.0	545
8	A Cryptic Sulfur Cycle in Oxygen-Minimum "Zone Waters off the Chilean Coast. <i>Science</i> , 2010, 330, 1375-1378.	6.0	545
9	Anaerobic ammonium oxidation (anammox) in the marine environment. <i>Research in Microbiology</i> , 2005, 156, 457-464.	1.0	538
10	Bacterial Manganese and Iron Reduction in Aquatic Sediments. <i>Advances in Microbial Ecology</i> , 2000, , 41-84.	0.1	506
11	Linking crenarchaeal and bacterial nitrification to anammox in the Black Sea. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 7104-7109.	3.3	493
12	The Archean Sulfur Cycle and the Early History of Atmospheric Oxygen. <i>Science</i> , 2000, 288, 658-661.	6.0	430
13	Concentration and transport of nitrate by the mat-forming sulphur bacterium <i>Thioploca</i> . <i>Nature</i> , 1995, 374, 713-715.	13.7	410
14	Bacterial Disproportionation of Elemental Sulfur Coupled to Chemical Reduction of Iron or Manganese. <i>Applied and Environmental Microbiology</i> , 1993, 59, 101-108.	1.4	363
15	Towards a consistent classification scheme for geochemical environments, or, why we wish the term "suboxic" would go away. <i>Geobiology</i> , 2009, 7, 385-392.	1.1	324
16	Anaerobic ammonium-oxidizing bacteria in marine environments: widespread occurrence but low diversity. <i>Environmental Microbiology</i> , 2007, 9, 1476-1484.	1.8	307
17	Elemental Sulfur and Thiosulfate Disproportionation by <i>Desulfocapsa sulfoexigens</i> sp. nov., a New Anaerobic Bacterium Isolated from Marine Surface Sediment. <i>Applied and Environmental Microbiology</i> , 1998, 64, 119-125.	1.4	300
18	Pathways of carbon oxidation in continental margin sediments off central Chile. <i>Limnology and Oceanography</i> , 1996, 41, 1629-1650.	1.6	292

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19	Factors Controlling Anaerobic Ammonium Oxidation with Nitrite in Marine Sediments. <i>Applied and Environmental Microbiology</i> , 2002, 68, 3802-3808.	1.4	280
20	Anaerobic ammonium oxidation in a tropical freshwater system (Lake Tanganyika). <i>Environmental Microbiology</i> , 2006, 8, 1857-1863.	1.8	278
21	Anaerobic ammonium oxidation in the oxygen-deficient waters off northern Chile. <i>Limnology and Oceanography</i> , 2006, 51, 2145-2156.	1.6	277
22	New Pathways and Processes in the Global Nitrogen Cycle. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2012, 43, 407-428.	3.8	256
23	Anammox and denitrification in the oxygen minimum zone of the eastern South Pacific. <i>Limnology and Oceanography</i> , 2012, 57, 1331-1346.	1.6	243
24	Oxygen and sulfur isotope fractionation during anaerobic bacterial disproportionation of elemental sulfur. <i>Geochimica Et Cosmochimica Acta</i> , 2001, 65, 1601-1609.	1.6	225
25	Determination of ultra-low oxygen concentrations in oxygen minimum zones by the STOX sensor. <i>Limnology and Oceanography: Methods</i> , 2009, 7, 371-381.	1.0	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. <i>MBio</i> , 2014, 5, e01966.	1.8	216
27	Iron-bound phosphorus in marine sediments as measured by bicarbonate-dithionite extraction. <i>Hydrobiologia</i> , 1993, 253, 47-59.	1.0	213
28	Ammonium and nitrite oxidation at nanomolar oxygen concentrations in oxygen minimum zone waters. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 10601-10606.	3.3	195
29	Widespread functional anoxia in the oxygen minimum zone of the Eastern South Pacific. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2012, 65, 36-45.	0.6	190
30	Rates and regulation of anaerobic ammonium oxidation and denitrification in the Black Sea. <i>Limnology and Oceanography</i> , 2008, 53, 23-36.	1.6	184
31	N ₂ production rates limited by nitrite availability in the Bay of Bengal oxygen minimum zone. <i>Nature Geoscience</i> , 2017, 10, 24-29.	5.4	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. <i>Applied and Environmental Microbiology</i> , 1996, 62, 1391-1404.	1.4	177
33	Size-fraction partitioning of community gene transcription and nitrogen metabolism in a marine oxygen minimum zone. <i>ISME Journal</i> , 2015, 9, 2682-2696.	4.4	169
34	Seasonal carbon and nutrient mineralization in a high-Arctic coastal marine sediment, Young Sound, Northeast Greenland. <i>Marine Ecology - Progress Series</i> , 1998, 175, 261-276.	0.9	164
35	Microbial Manganese and Sulfate Reduction in Black Sea Shelf Sediments. <i>Applied and Environmental Microbiology</i> , 2000, 66, 2888-2897.	1.4	161
36	SAR11 bacteria linked to ocean anoxia and nitrogen loss. <i>Nature</i> , 2016, 536, 179-183.	13.7	160

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37	Temperature dependence of microbial degradation of organic matter in marine sediments: polysaccharide hydrolysis, oxygen consumption, and sulfate reduction. <i>Marine Ecology - Progress Series</i> , 1998, 165, 59-70.	0.9	160
38	Anaerobic ammonium oxidation by marine and freshwater planctomycete-like bacteria. <i>Applied Microbiology and Biotechnology</i> , 2003, 63, 107-114.	1.7	156
39	Dynamic Modeling of Early Diagenesis and Nutrient Cycling. A Case Study in an Arctic Marine Sediment. <i>Numerische Mathematik</i> , 2003, 303, 905-955.	0.7	149
40	Isotope fractionation and sulfur metabolism by pure and enrichment cultures of elemental sulfur-disproportionating bacteria. <i>Limnology and Oceanography</i> , 1998, 43, 253-264.	1.6	148
41	Influence of water column dynamics on sulfide oxidation and other major biogeochemical processes in the chemocline of Mariager Fjord (Denmark). <i>Marine Chemistry</i> , 2001, 74, 29-51.	0.9	142
42	Nitrogen removal in marine environments: recent findings and future research challenges. <i>Marine Chemistry</i> , 2005, 94, 125-145.	0.9	142
43	Dissimilatory nitrate reduction to ammonium coupled to Fe(II) oxidation in sediments of a periodically hypoxic estuary. <i>Limnology and Oceanography</i> , 2016, 61, 365-381.	1.6	136
44	Anaerobic oxidation of methane in an iron-rich Danish freshwater lake sediment. <i>Limnology and Oceanography</i> , 2013, 58, 546-554.	1.6	132
45	Manganese oxidation and in situ manganese fluxes from a coastal sediment. <i>Geochimica Et Cosmochimica Acta</i> , 1994, 58, 2563-2570.	1.6	128
46	Anaerobic sulfide oxidation and stable isotope fractionation associated with bacterial sulfur disproportionation in the presence of MnO ₂ . <i>Geochimica Et Cosmochimica Acta</i> , 2001, 65, 1573-1581.	1.6	128
47	Anoxic incubation of sediment in gas-tight plastic bags: a method for biogeochemical process studies. <i>Marine Ecology - Progress Series</i> , 2000, 208, 273-282.	0.9	127
48	The fate of ammonium in anoxic manganese oxide-rich marine sediment. <i>Geochimica Et Cosmochimica Acta</i> , 2000, 64, 4157-4164.	1.6	126
49	Rates and pathways of carbon oxidation in permanently cold Arctic sediments. <i>Marine Ecology - Progress Series</i> , 1999, 180, 7-21.	0.9	119
50	Temperature dependence of aerobic respiration in a coastal sediment. <i>FEMS Microbiology Ecology</i> , 1998, 25, 189-200.	1.3	114
51	Effects of Specific Inhibitors on Anammox and Denitrification in Marine Sediments. <i>Applied and Environmental Microbiology</i> , 2007, 73, 3151-3158.	1.4	113
52	NC10 bacteria in marine oxygen minimum zones. <i>ISME Journal</i> , 2016, 10, 2067-2071.	4.4	112
53	Anammox bacteria and the anaerobic oxidation of ammonium in the oxygen minimum zone off northern Chile. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2009, 56, 1021-1031.	0.6	105
54	Sulfur and iron cycling in a coastal sediment: Radiotracer studies and seasonal dynamics. <i>Biogeochemistry</i> , 1994, 27, 129.	1.7	101

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55	Rates and regulation of microbial iron reduction in sediments of the Baltic-North Sea transition. <i>Biogeochemistry</i> , 2003, 65, 295-317.	1.7	101
56	Nitrogen losses in anoxic marine sediments driven by Thioploca anammox bacterial consortia. <i>Nature</i> , 2013, 500, 194-198.	13.7	96
57	Controls on Mo isotope fractionations in a Mn-rich anoxic marine sediment, Gullmar Fjord, Sweden. <i>Chemical Geology</i> , 2012, 296-297, 73-82.	1.4	95
58	Three manganese oxide-rich marine sediments harbor similar communities of acetate-oxidizing manganese-reducing bacteria. <i>ISME Journal</i> , 2012, 6, 2078-2090.	4.4	95
59	Nitrogen cycling in a deep ocean margin sediment (Sagami Bay, Japan). <i>Limnology and Oceanography</i> , 2009, 54, 723-734.	1.6	94
60	Anaerobic Methanotrophic Archaea of the ANME-2d Cluster Are Active in a Low-sulfate, Iron-rich Freshwater Sediment. <i>Frontiers in Microbiology</i> , 2017, 8, 619.	1.5	91
61	Oxygen and nitrogen production by an ammonia-oxidizing archaeon. <i>Science</i> , 2022, 375, 97-100.	6.0	91
62	The Response of the Microbial Community of Marine Sediments to Organic Carbon Input under Anaerobic Conditions. <i>Systematic and Applied Microbiology</i> , 1999, 22, 237-248.	1.2	89
63	Effect of Low Sulfate Concentrations on Lactate Oxidation and Isotope Fractionation during Sulfate Reduction by <i>Archaeoglobus fulgidus</i> Strain Z. <i>Applied and Environmental Microbiology</i> , 2005, 71, 3770-3777.	1.4	88
64	Temperature dependence of oxygen respiration, nitrogen mineralization, and nitrification in Arctic sediments. <i>Aquatic Microbial Ecology</i> , 1998, 15, 191-199.	0.9	85
65	³⁴ S/ ³² S and ¹⁸ O/ ¹⁶ O Fractionation During Sulfur Disproportionation by <i>Desulfobulbus propionicus</i> . <i>Geomicrobiology Journal</i> , 2005, 22, 219-226.	1.0	84
66	Fate of elemental sulfur in an intertidal sediment. <i>FEMS Microbiology Ecology</i> , 1996, 19, 95-103.	1.3	83
67	Vertical partitioning of nitrogen loss processes across the oxic-anoxic interface of an oceanic oxygen minimum zone. <i>Environmental Microbiology</i> , 2014, 16, 3041-3054.	1.8	83
68	Extracellular Electron Uptake by Two <i>Methanosarcina</i> Species. <i>Frontiers in Energy Research</i> , 2019, 7, .	1.2	80
69	Experimental Incubations Elicit Profound Changes in Community Transcription in OMZ Bacterioplankton. <i>PLoS ONE</i> , 2012, 7, e37118.	1.1	79
70	Pathways, rates, and regulation of N ₂ production in the chemocline of an anoxic basin, Mariager Fjord, Denmark. <i>Marine Chemistry</i> , 2009, 113, 102-113.	0.9	75
71	Biogeochemical and metagenomic analysis of nitrite accumulation in the sulfidic of Mexico hypoxic zone. <i>Limnology and Oceanography</i> , 2015, 60, 1733-1750.	1.6	72
72	Pathways of organic carbon oxidation in a deep lacustrine sediment, Lake Michigan. <i>Limnology and Oceanography</i> , 2004, 49, 2046-2057.	1.6	71

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73	The fate of nitrogen is linked to iron(II) availability in a freshwater lake sediment. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 205, 84-99.	1.6	71
74	Benthic carbon mineralization in a high-Arctic sound (Young Sound, NE Greenland). <i>Marine Ecology - Progress Series</i> , 2000, 206, 59-71.	0.9	71
75	Thiosulfate and sulfite distributions in porewater of marine sediments related to manganese, iron, and sulfur geochemistry. <i>Geochimica Et Cosmochimica Acta</i> , 1994, 58, 67-73.	1.6	70
76	Conductive Particles Enable Syntrophic Acetate Oxidation between <i>Geobacter</i> and <i>Methanosarcina</i> from Coastal Sediments. <i>MBio</i> , 2018, 9, .	1.8	69
77	High-resolution metal gradients measured by in situ DGT/DET deployment in Black Sea sediments using an autonomous benthic lander. <i>Limnology and Oceanography</i> , 2001, 46, 982-988.	1.6	67
78	Significance of archaeal nitrification in hypoxic waters of the Baltic Sea. <i>ISME Journal</i> , 2015, 9, 1319-1332.	4.4	67
79	Nitrate-dependent anaerobic methane oxidation in a freshwater sediment. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 132, 141-150.	1.6	65
80	Iron-dependent nitrogen cycling in a ferruginous lake and the nutrient status of Proterozoic oceans. <i>Nature Geoscience</i> , 2017, 10, 217-221.	5.4	61
81	Denitrification and DNRA at the Baltic Sea oxic-anoxic interface: Substrate spectrum and kinetics. <i>Limnology and Oceanography</i> , 2016, 61, 1900-1915.	1.6	60
82	A critical assessment of the occurrence and extend of oxygen contamination during anaerobic incubations utilizing commercially available vials. <i>Journal of Microbiological Methods</i> , 2012, 88, 147-154.	0.7	59
83	Pathways and Controls of N_2O Production in Nitritation "Anammox Biomass. <i>Environmental Science & Technology</i> , 2017, 51, 8981-8991.	4.6	59
84	Methane production by microbial mats under low sulphate concentrations. <i>Geobiology</i> , 2004, 2, 87-96.	1.1	55
85	Anaerobic Nitrogen Turnover by Sinking Diatom Aggregates at Varying Ambient Oxygen Levels. <i>Frontiers in Microbiology</i> , 2016, 7, 98.	1.5	55
86	Vivianite formation and its role in phosphorus retention in Lake Årø, Denmark. <i>Chemical Geology</i> , 2015, 409, 42-53.	1.4	53
87	Anaerobic ammonium-oxidising bacteria: A biological source of the bacteriohopanetetrol stereoisomer in marine sediments. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 140, 50-64.	1.6	49
88	Manganese and iron reduction dominate organic carbon oxidation in surface sediments of the deep Ulleung Basin, East Sea. <i>Biogeosciences</i> , 2017, 14, 941-958.	1.3	49
89	Hadal trenches are dynamic hotspots for early diagenesis in the deep sea. <i>Communications Earth & Environment</i> , 2021, 2, .	2.6	49
90	Temporal dynamics of nitrogen loss in the coastal upwelling ecosystem off central Chile: Evidence of autotrophic denitrification through sulfide oxidation. <i>Limnology and Oceanography</i> , 2014, 59, 1865-1878.	1.6	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. <i>Frontiers in Microbiology</i> , 2017, 8, 1951.	1.5	48
92	Copepod carcasses as microbial hot spots for pelagic denitrification. <i>Limnology and Oceanography</i> , 2015, 60, 2026-2036.	1.6	47
93	Denitrification, anaerobic ammonium oxidation, and dissimilatory nitrate reduction to ammonium in an East African Great Lake (Lake Kivu). <i>Limnology and Oceanography</i> , 2018, 63, 687-701.	1.6	46
94	Anaerobic methane oxidation is an important sink for methane in the ocean's largest oxygen minimum zone. <i>Limnology and Oceanography</i> , 2019, 64, 2569-2585.	1.6	46
95	Single cell genomic and transcriptomic evidence for the use of alternative nitrogen substrates by anammox bacteria. <i>ISME Journal</i> , 2018, 12, 2706-2722.	4.4	45
96	Baltic Sea methanogens compete with acetogens for electrons from metallic iron. <i>ISME Journal</i> , 2019, 13, 3011-3023.	4.4	45
97	Preface. <i>Advances in Marine Biology</i> , 2005, 48, xi-xii.	0.7	44
98	Metagenomic Binning Recovers a Transcriptionally Active Gammaproteobacterium Linking Methanotrophy to Partial Denitrification in an Anoxic Oxygen Minimum Zone. <i>Frontiers in Marine Science</i> , 2017, 4, .	1.2	44
99	Identification of acetate-oxidizing bacteria in a coastal marine surface sediment by RNA-stable isotope probing in anoxic slurries and intact cores. <i>FEMS Microbiology Ecology</i> , 2013, 84, 373-386.	1.3	41
100	Stark Contrast in Denitrification and Anammox across the Deep Norwegian Trench in the Skagerrak. <i>Applied and Environmental Microbiology</i> , 2013, 79, 7381-7389.	1.4	41
101	Nitrogen isotope dynamics and fractionation during sedimentary denitrification in Boknis Eck, Baltic Sea. <i>Biogeosciences</i> , 2013, 10, 3079-3088.	1.3	41
102	Metabolic potential and <i>in situ</i> activity of marine Marinimicrobia bacteria in an anoxic water column. <i>Environmental Microbiology</i> , 2017, 19, 4392-4416.	1.8	40
103	Benthic Respiration in Aquatic Sediments. , 2000, , 86-103.		39
104	Low nitrous oxide production through nitrifier-denitrification in intermittent-feed high-rate nitrification reactors. <i>Water Research</i> , 2017, 123, 429-438.	5.3	36
105	Sulfur cycling in oceanic oxygen minimum zones. <i>Limnology and Oceanography</i> , 2021, 66, 2360-2392.	1.6	34
106	Oxygenation of an anoxic fjord basin strongly stimulates benthic denitrification and DNRA. <i>Biogeochemistry</i> , 2015, 126, 131-152.	1.7	33
107	The fate of fixed nitrogen in marine sediments with low organic loading: an <i>in situ</i> study. <i>Biogeosciences</i> , 2017, 14, 285-300.	1.3	33
108	DNA- and RNA-SIP Reveal <i>Nitrospira</i> spp. as Key Drivers of Nitrification in Groundwater-Fed Biofilters. <i>MBio</i> , 2019, 10, .	1.8	33

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109	Construction of STOX Oxygen Sensors and Their Application for Determination of O ₂ Concentrations in Oxygen Minimum Zones. <i>Methods in Enzymology</i> , 2011, 486, 325-341.	0.4	30
110	Novel anammox bacteria and nitrogen loss from Lake Superior. <i>Scientific Reports</i> , 2017, 7, 13757.	1.6	30
111	Challenges in using allylthiourea and chlorate as specific nitrification inhibitors. <i>Chemosphere</i> , 2017, 182, 301-305.	4.2	30
112	Mathematical simulation of the diel O, S, and C biogeochemistry of a hypersaline microbial mat. <i>FEMS Microbiology Ecology</i> , 2005, 52, 377-395.	1.3	29
113	Hydrogen, acetate, and lactate as electron donors for microbial manganese reduction in a manganese-rich coastal marine sediment. <i>FEMS Microbiology Ecology</i> , 2014, 87, 733-745.	1.3	29
114	The isotope effect of denitrification in permeable sediments. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 133, 156-167.	1.6	29
115	Microbial community structure in hadal sediments: high similarity along trench axes and strong changes along redox gradients. <i>ISME Journal</i> , 2021, 15, 3455-3467.	4.4	29
116	Composition and diagenesis of neutral carbohydrates in sediments of the Baltic-North Sea transition. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 4085-4099.	1.6	28
117	High Sulfur Isotope Fractionation Associated with Anaerobic Oxidation of Methane in a Low-Sulfate, Iron-Rich Environment. <i>Frontiers in Earth Science</i> , 2016, 4, .	0.8	28
118	Intracellular Nitrate of Marine Diatoms as a Driver of Anaerobic Nitrogen Cycling in Sinking Aggregates. <i>Frontiers in Microbiology</i> , 2016, 7, 1669.	1.5	28
119	Vertical segregation among pathways mediating nitrogen loss (N ₂ and N ₂ O) in a marine fjord. <i>Limnology and Oceanography</i> , 2017, 62, 4795-4813.	1.8	28
120	Seasonal carbon cycling in a Greenlandic fjord: an integrated pelagic and benthic study. <i>Marine Ecology - Progress Series</i> , 2015, 539, 1-17.	0.9	28
121	Carbon fixation rates in groundwater similar to those in oligotrophic marine systems. <i>Nature Geoscience</i> , 2022, 15, 561-567.	5.4	28
122	Fixed-Nitrogen Loss Associated with Sinking Zooplankton Carcasses in a Coastal Oxygen Minimum Zone (Golfo Dulce, Costa Rica). <i>Frontiers in Marine Science</i> , 2017, 4, .	1.2	26
123	Heterotrophic Carbon Metabolism. <i>Advances in Marine Biology</i> , 2005, 48, 129-166.	0.7	24
124	High mercury accumulation in deep-ocean hadal sediments. <i>Scientific Reports</i> , 2021, 11, 10970.	1.6	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. <i>Limnology and Oceanography</i> , 2016, 61, 610-624.	1.6	23

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127	Controls of H ₂ S, Fe ²⁺ , and Mn ²⁺ on Microbial NO ₃ ⁻ -Reducing Processes in Sediments of an Eutrophic Lake. <i>Frontiers in Microbiology</i> , 2020, 11, 1158.	1.5	23
128	A model-based insight into the coupling of nitrogen and sulfur cycles in a coastal upwelling system. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2014, 119, 264-285.	1.3	22
129	A new diet for methane oxidizers. <i>Science</i> , 2016, 351, 658-658.	6.0	21
130	Anammox and partial nitrification in the mainstream of a wastewater treatment plant in a temperate region (Denmark). <i>Water Science and Technology</i> , 2019, 79, 1397-1405.	1.2	21
131	Anaerobic methane oxidation and aerobic methane production in an east African great lake (Lake Kivu). <i>Journal of Great Lakes Research</i> , 2018, 44, 1183-1193.	0.8	20
132	Anammox bacteria drive fixed nitrogen loss in hadal trench sediments. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	20
133	The Phosphorus Cycle. <i>Advances in Marine Biology</i> , 2005, 48, 419-440.	0.7	19
134	Distinct nitrogen cycling and steep chemical gradients in <i>Trichodesmium</i> colonies. <i>ISME Journal</i> , 2020, 14, 399-412.	4.4	19
135	Rates of N ₂ production and diversity and abundance of functional genes associated with denitrification and anaerobic ammonium oxidation in the sediment of the Amundsen Sea Polynya, Antarctica. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2016, 123, 113-125.	0.6	18
136	Spatial variability of prokaryotic and viral abundances in the Kermadec and Atacama Trench regions. <i>Limnology and Oceanography</i> , 2021, 66, 2095-2109.	1.6	18
137	Influence of settling organic matter quantity and quality on benthic nitrogen cycling. <i>Limnology and Oceanography</i> , 2021, 66, 1882-1895.	1.6	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. <i>Science of the Total Environment</i> , 2019, 691, 858-867.	3.9	16
139	Competition for inorganic carbon between oxygenic and anoxygenic phototrophs in a hypersaline microbial mat, Guerrero Negro, Mexico. <i>Environmental Microbiology</i> , 2013, 15, 1532-1550.	1.8	15
140	Nitrate reduction pathways and interactions with iron in the drainage water infiltration zone of a riparian wetland soil. <i>Biogeochemistry</i> , 2020, 150, 235-255.	1.7	15
141	The Nitrogen Cycle. <i>Advances in Marine Biology</i> , 2005, , 205-267.	0.7	14
142	The Methane Cycle. <i>Advances in Marine Biology</i> , 2005, 48, 383-418.	0.7	14
143	Temperature dependence of aerobic respiration in a coastal sediment. <i>FEMS Microbiology Ecology</i> , 1998, 25, 189-200.	1.3	14
144	The Silicon Cycle. <i>Advances in Marine Biology</i> , 2005, 48, 441-463.	0.7	13

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145	N ₂ production through denitrification and anammox across the continental margin (shelf-slope-rise) of the Ulleung Basin, East Sea. <i>Limnology and Oceanography</i> , 2018, 63, S410.	1.6	13
146	Nutrient availability limits biological production in Arctic sea ice melt ponds. <i>Polar Biology</i> , 2017, 40, 1593-1606.	0.5	12
147	Thermodynamics and Microbial Metabolism. <i>Advances in Marine Biology</i> , 2005, 48, 65-94.	0.7	11
148	Effect of settled diatom aggregates on benthic nitrogen cycling. <i>Limnology and Oceanography</i> , 2018, 63, 431-444.	1.6	11
149	Coupled nitrification and N ₂ gas production as a cryptic process in oxic riverbeds. <i>Nature Communications</i> , 2021, 12, 1217.	5.8	11
150	Sulfate- and iron-dependent anaerobic methane oxidation occurring side-by-side in freshwater lake sediment. <i>Limnology and Oceanography</i> , 2022, 67, 231-246.	1.6	11
151	Nitrogen cycling and bacterial community structure of sinking and aging diatom aggregates. <i>Aquatic Microbial Ecology</i> , 2017, 79, 85-99.	0.9	10
152	Carbon Fixation and Phototrophy. <i>Advances in Marine Biology</i> , 2005, 48, 95-127.	0.7	9
153	Benthic mineralization and solute exchange on a Celtic Sea sand-bank (Jones Bank). <i>Progress in Oceanography</i> , 2013, 117, 64-75.	1.5	8
154	The regulation of oxygen to low concentrations in marine oxygen-minimum zones. <i>Journal of Marine Research</i> , 2019, 77, 297-324.	0.3	8
155	Aerobic and anaerobic methane oxidation in a seasonally anoxic basin. <i>Limnology and Oceanography</i> , 2022, 67, 1257-1273.	1.6	8
156	Freshwater copepod carcasses as pelagic microsites of dissimilatory nitrate reduction to ammonium. <i>FEMS Microbiology Ecology</i> , 2018, 94, .	1.3	7
157	A fast numerical solution to the general mass-conservation equation for solutes and solids in aquatic sediments. <i>Journal of Marine Research</i> , 2007, 65, 317-343.	0.3	6
158	New Players in an Ancient Cycle. <i>Science</i> , 2007, 317, 1508-1509.	6.0	6
159	Anaerobic methane oxidation in a coastal oxygen minimum zone: spatial and temporal dynamics. <i>Environmental Microbiology</i> , 2022, 24, 2361-2379.	1.8	5
160	Coastal oceanic nitrogen loss. <i>Nature Geoscience</i> , 2013, 6, 160-161.	5.4	4
161	Benthic nitrogen cycling in the North Sea. <i>Continental Shelf Research</i> , 2019, 185, 31-36.	0.9	4
162	Acetate-utilizing microbial communities revealed by stable-isotope probing in sediment underlying the upwelling system of the Ulleung Basin, East Sea. <i>Marine Ecology - Progress Series</i> , 2020, 634, 45-61.	0.9	4

#	ARTICLE	IF	CITATIONS
163	The Archean Atmosphere and Sedimentary Sulfides. <i>Science</i> , 2000, 289, 1297-1298.	6.0	3
164	Microbial bioremediation of produced water under different redox conditions in marine sediments. <i>Water Research</i> , 2022, 218, 118428.	5.3	3
165	Structure and Growth of Microbial Populations. <i>Advances in Marine Biology</i> , 2005, 48, 23-64.	0.7	2
166	Microbial Ecosystems. <i>Advances in Marine Biology</i> , 2005, 48, 465-506.	0.7	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. <i>Applied and Environmental Microbiology</i> , 1996, 62, 3915-3915.	1.4	1
168	Nitrogen cycling in sub-oxic water colmns. <i>Gayana</i> , 0, 70, .	0.0	0