

Bo Thamdrup

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165
papers

15,528
citations

64
h-index

123
g-index

178
ext. papers

17,618
ext. citations

7.6
avg, IF

6.68
L-index

#	Paper	IF	Citations
165	Production of N ₂ through anaerobic ammonium oxidation coupled to nitrate reduction in marine sediments. <i>Applied and Environmental Microbiology</i> , 2002 , 68, 1312-8	4.8	765
164	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, 3867-83	5.5	675
163	Calibration of sulfate levels in the archean ocean. <i>Science</i> , 2002 , 298, 2372-4	33.3	585
162	Pathways of organic carbon oxidation in three continental margin sediments. <i>Marine Geology</i> , 1993 , 113, 27-40	3.3	580
161	N ₂ production by the anammox reaction in the anoxic water column of Golfo Dulce, Costa Rica. <i>Nature</i> , 2003 , 422, 606-8	50.4	499
160	Manganese, iron and sulfur cycling in a coastal marine sediment, Aarhus bay, Denmark. <i>Geochimica Et Cosmochimica Acta</i> , 1994 , 58, 5115-5129	5.5	486
159	The production of ³⁴ S-depleted sulfide during bacterial disproportionation of elemental sulfur. <i>Science</i> , 1994 , 266, 1973-5	33.3	456
158	Anaerobic ammonium oxidation (anammox) in the marine environment. <i>Research in Microbiology</i> , 2005 , 156, 457-64	4	454
157	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, 7104-9	11.5	444
156	A cryptic sulfur cycle in oxygen-minimum-zone waters off the Chilean coast. <i>Science</i> , 2010 , 330, 1375-8	33.3	424
155	Bacterial Manganese and Iron Reduction in Aquatic Sediments. <i>Advances in Microbial Ecology</i> , 2000 , 41-84		402
154	The Archean sulfur cycle and the early history of atmospheric oxygen. <i>Science</i> , 2000 , 288, 658-61	33.3	367
153	Concentration and transport of nitrate by the mat-forming sulphur bacterium <i>Thioploca</i> . <i>Nature</i> , 1995 , 374, 713-715	50.4	346
152	Bacterial disproportionation of elemental sulfur coupled to chemical reduction of iron or manganese. <i>Applied and Environmental Microbiology</i> , 1993 , 59, 101-8	4.8	287
151	Anaerobic ammonium-oxidizing bacteria in marine environments: widespread occurrence but low diversity. <i>Environmental Microbiology</i> , 2007 , 9, 1476-84	5.2	257
150	Factors controlling anaerobic ammonium oxidation with nitrite in marine sediments. <i>Applied and Environmental Microbiology</i> , 2002 , 68, 3802-8	4.8	248
149	Anaerobic ammonium oxidation in a tropical freshwater system (Lake Tanganyika). <i>Environmental Microbiology</i> , 2006 , 8, 1857-63	5.2	246

148	Pathways of carbon oxidation in continental margin sediments off central Chile. <i>Limnology and Oceanography</i> , 1996 , 41, 1629-50	4.8	236
147	Anaerobic ammonium oxidation in the oxygen-deficient waters off northern Chile. <i>Limnology and Oceanography</i> , 2006 , 51, 2145-2156	4.8	233
146	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, 119-25	4.8	227
145	Iron-bound phosphorus in marine sediments as measured by bicarbonate-dithionite extraction. <i>Hydrobiologia</i> , 1993 , 253, 47-59	2.4	204
144	Oxygen and sulfur isotope fractionation during anaerobic bacterial disproportionation of elemental sulfur. <i>Geochimica Et Cosmochimica Acta</i> , 2001 , 65, 1601-1609	5.5	200
143	Determination of ultra-low oxygen concentrations in oxygen minimum zones by the STOX sensor. <i>Limnology and Oceanography: Methods</i> , 2009 , 7, 371-381	2.6	189
142	New Pathways and Processes in the Global Nitrogen Cycle. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2012 , 43, 407-428	13.5	188
141	Anammox and denitrification in the oxygen minimum zone of the eastern South Pacific. <i>Limnology and Oceanography</i> , 2012 , 57, 1331-1346	4.8	188
140	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	2.5	156
139	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	7.8	153
138	Anaerobic ammonium oxidation by marine and freshwater planctomycete-like bacteria. <i>Applied Microbiology and Biotechnology</i> , 2003 , 63, 107-14	5.7	143
137	Rates and regulation of anaerobic ammonium oxidation and denitrification in the Black Sea. <i>Limnology and Oceanography</i> , 2008 , 53, 23-36	4.8	141
136	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, 10601-6	11.5	134
135	Microbial manganese and sulfate reduction in Black Sea shelf sediments. <i>Applied and Environmental Microbiology</i> , 2000 , 66, 2888-97	4.8	130
134	Nitrogen removal in marine environments: recent findings and future research challenges. <i>Marine Chemistry</i> , 2005 , 94, 125-145	3.7	126
133	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	3.7	126
132	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	2.6	126
131	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	2.6	125

130	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, 1391-404	4.8	121
129	Isotope fractionation and sulfur metabolism by pure and enrichment cultures of elemental sulfur-disproportionating bacteria. <i>Limnology and Oceanography</i> , 1998 , 43, 253-264	4.8	120
128	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	5.5	116
127	Dynamic Modeling of Early Diagenesis and Nutrient Cycling. A Case Study in an Arctic Marine Sediment. <i>Numerische Mathematik</i> , 2003 , 303, 905-955	5.3	115
126	Manganese oxidation and in situ manganese fluxes from a coastal sediment. <i>Geochimica Et Cosmochimica Acta</i> , 1994 , 58, 2563-2570	5.5	109
125	N ₂ production rates limited by nitrite availability in the Bay of Bengal oxygen minimum zone. <i>Nature Geoscience</i> , 2017 , 10, 24-29	18.3	107
124	The fate of ammonium in anoxic manganese oxide-rich marine sediment. <i>Geochimica Et Cosmochimica Acta</i> , 2000 , 64, 4157-4164	5.5	105
123	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	2.6	104
122	Anaerobic oxidation of methane in an iron-rich Danish freshwater lake sediment. <i>Limnology and Oceanography</i> , 2013 , 58, 546-554	4.8	103
121	Size-fraction partitioning of community gene transcription and nitrogen metabolism in a marine oxygen minimum zone. <i>ISME Journal</i> , 2015 , 9, 2682-96	11.9	101
120	SAR11 bacteria linked to ocean anoxia and nitrogen loss. <i>Nature</i> , 2016 , 536, 179-83	50.4	96
119	Rates and pathways of carbon oxidation in permanently cold Arctic sediments. <i>Marine Ecology - Progress Series</i> , 1999 , 180, 7-21	2.6	94
118	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	4.8	94
117	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	2.3	90
116	Effects of specific inhibitors on anammox and denitrification in marine sediments. <i>Applied and Environmental Microbiology</i> , 2007 , 73, 3151-8	4.8	89
115	Rates and regulation of microbial iron reduction in sediments of the Baltic-North Sea transition. <i>Biogeochemistry</i> , 2003 , 65, 295-317	3.8	87
114	Temperature dependence of aerobic respiration in a coastal sediment. <i>FEMS Microbiology Ecology</i> , 1998 , 25, 189-200	4.3	86
113	The response of the microbial community of marine sediments to organic carbon input under anaerobic conditions. <i>Systematic and Applied Microbiology</i> , 1999 , 22, 237-48	4.2	80

112	Nitrogen cycling in a deep ocean margin sediment (Sagami Bay, Japan). <i>Limnology and Oceanography</i> , 2009 , 54, 723-734	4.8	78
111	Sulfur and iron cycling in a coastal sediment: Radiotracer studies and seasonal dynamics. <i>Biogeochemistry</i> , 1994 , 27, 129	3.8	78
110	NC10 bacteria in marine oxygen minimum zones. <i>ISME Journal</i> , 2016 , 10, 2067-71	11.9	77
109	Controls on Mo isotope fractionations in a Mn-rich anoxic marine sediment, Gullmar Fjord, Sweden. <i>Chemical Geology</i> , 2012 , 296-297, 73-82	4.2	76
108	Nitrogen losses in anoxic marine sediments driven by Thioploca-anammox bacterial consortia. <i>Nature</i> , 2013 , 500, 194-8	50.4	73
107	Three manganese oxide-rich marine sediments harbor similar communities of acetate-oxidizing manganese-reducing bacteria. <i>ISME Journal</i> , 2012 , 6, 2078-90	11.9	72
106	Fate of elemental sulfur in an intertidal sediment. <i>FEMS Microbiology Ecology</i> , 1996 , 19, 95-103	4.3	72
105	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	2.5	71
104	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, 3770-7	4.8	69
103	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	3.7	65
102	Temperature dependence of oxygen respiration, nitrogen mineralization, and nitrification in Arctic sediments. <i>Aquatic Microbial Ecology</i> , 1998 , 15, 191-199	1.1	64
101	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	5.5	60
100	Vertical partitioning of nitrogen-loss processes across the oxic-anoxic interface of an oceanic oxygen minimum zone. <i>Environmental Microbiology</i> , 2014 , 16, 3041-54	5.2	59
99	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	4.8	59
98	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	5.7	55
97	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, 147-54	2.8	55
96	Experimental incubations elicit profound changes in community transcription in OMZ bacterioplankton. <i>PLoS ONE</i> , 2012 , 7, e37118	3.7	54
95	Nitrate-dependent anaerobic methane oxidation in a freshwater sediment. <i>Geochimica Et Cosmochimica Acta</i> , 2014 , 132, 141-150	5.5	51

94	Extracellular Electron Uptake by Two Methanosarcina Species. <i>Frontiers in Energy Research</i> , 2019 , 7,	3.8	50
93	Significance of archaeal nitrification in hypoxic waters of the Baltic Sea. <i>ISME Journal</i> , 2015 , 9, 1319-32	11.9	49
92	Benthic carbon mineralization in a high-Arctic sound (Young Sound, NE Greenland). <i>Marine Ecology - Progress Series</i> , 2000 , 206, 59-71	2.6	48
91	Conductive Particles Enable Syntrophic Acetate Oxidation between and from Coastal Sediments. <i>MBio</i> , 2018 , 9,	7.8	47
90	Denitrification and DNRA at the Baltic Sea oxic-anoxic interface: Substrate spectrum and kinetics. <i>Limnology and Oceanography</i> , 2016 , 61, 1900-1915	4.8	47
89	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	5.5	43
88	Methane production by microbial mats under low sulphate concentrations. <i>Geobiology</i> , 2004 , 2, 87-96	4.3	43
87	Pathways of organic carbon oxidation in a deep lacustrine sediment, Lake Michigan. <i>Limnology and Oceanography</i> , 2004 , 49, 2046-2057	4.8	42
86	Biogeochemical and metagenomic analysis of nitrite accumulation in the Gulf of Mexico hypoxic zone. <i>Limnology and Oceanography</i> , 2015 , 60, 1733-1750	4.8	41
85	Vivianite formation and its role in phosphorus retention in Lake En, Denmark. <i>Chemical Geology</i> , 2015 , 409, 42-53	4.2	37
84	Pathways and Controls of NO Production in Nitrification-Anammox Biomass. <i>Environmental Science & Technology</i> , 2017 , 51, 8981-8991	10.3	37
83	Anaerobic Nitrogen Turnover by Sinking Diatom Aggregates at Varying Ambient Oxygen Levels. <i>Frontiers in Microbiology</i> , 2016 , 7, 98	5.7	37
82	Anaerobic ammonium-oxidising bacteria: A biological source of the bacteriohopanetetrol stereoisomer in marine sediments. <i>Geochimica Et Cosmochimica Acta</i> , 2014 , 140, 50-64	5.5	36
81	Stark contrast in denitrification and anammox across the deep Norwegian trench in the Skagerrak. <i>Applied and Environmental Microbiology</i> , 2013 , 79, 7381-9	4.8	36
80	Iron-dependent nitrogen cycling in a ferruginous lake and the nutrient status of Proterozoic oceans. <i>Nature Geoscience</i> , 2017 , 10, 217-221	18.3	35
79	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	5.7	34
78	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,	4.5	33
77	Copepod carcasses as microbial hot spots for pelagic denitrification. <i>Limnology and Oceanography</i> , 2015 , 60, 2026-2036	4.8	33

76	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	4.8	33
75	Nitrogen isotope dynamics and fractionation during sedimentary denitrification in Boknis Eck, Baltic Sea. <i>Biogeosciences</i> , 2013 , 10, 3079-3088	4.6	31
74	Aquatic geomicrobiology. <i>Advances in Marine Biology</i> , 2005 , 48, 1-599	2.1	30
73	Low nitrous oxide production through nitrifier-denitrification in intermittent-feed high-rate nitrification reactors. <i>Water Research</i> , 2017 , 123, 429-438	12.5	27
72	Oxygenation of an anoxic fjord basin strongly stimulates benthic denitrification and DNRA. <i>Biogeochemistry</i> , 2015 , 126, 131-152	3.8	27
71	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, 373-86	4.3	27
70	Mathematical simulation of the diel O, S, and C biogeochemistry of a hypersaline microbial mat. <i>FEMS Microbiology Ecology</i> , 2005 , 52, 377-95	4.3	27
69	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	4.8	26
68	Metabolic potential and in situ activity of marine Marinimicrobia bacteria in an anoxic water column. <i>Environmental Microbiology</i> , 2017 , 19, 4392-4416	5.2	26
67	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	4.6	26
66	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, 325-41	1.7	26
65	Nitrogen Cycling in Sediments 527-568		26
64	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,	3.5	25
63	Single cell genomic and transcriptomic evidence for the use of alternative nitrogen substrates by anammox bacteria. <i>ISME Journal</i> , 2018 , 12, 2706-2722	11.9	25
62	The fate of fixed nitrogen in marine sediments with low organic loading: an in situ study. <i>Biogeosciences</i> , 2017 , 14, 285-300	4.6	24
61	Intracellular Nitrate of Marine Diatoms as a Driver of Anaerobic Nitrogen Cycling in Sinking Aggregates. <i>Frontiers in Microbiology</i> , 2016 , 7, 1669	5.7	24
60	Composition and diagenesis of neutral carbohydrates in sediments of the Baltic-North Sea transition. <i>Geochimica Et Cosmochimica Acta</i> , 2005 , 69, 4085-4099	5.5	23
59	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	4.8	22

58	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, 733-45	4.3	21
57	Benthic Respiration in Aquatic Sediments 2000 , 86-103		21
56	Novel anammox bacteria and nitrogen loss from Lake Superior. <i>Scientific Reports</i> , 2017 , 7, 13757	4.9	20
55	Hadal trenches are dynamic hotspots for early diagenesis in the deep sea. <i>Communications Earth & Environment</i> , 2021 , 2,	6.1	20
54	Baltic Sea methanogens compete with acetogens for electrons from metallic iron. <i>ISME Journal</i> , 2019 , 13, 3011-3023	11.9	19
53	Seasonal carbon cycling in a Greenlandic fjord: an integrated pelagic and benthic study. <i>Marine Ecology - Progress Series</i> , 2015 , 539, 1-17	2.6	19
52	Isotope fractionation and isotope decoupling during anammox and denitrification in marine sediments. <i>Limnology and Oceanography</i> , 2016 , 61, 610-624	4.8	18
51	The isotope effect of denitrification in permeable sediments. <i>Geochimica Et Cosmochimica Acta</i> , 2014 , 133, 156-167	5.5	18
50	Oxygen and nitrogen production by an ammonia-oxidizing archaeon.. <i>Science</i> , 2022 , 375, 97-100	33.3	18
49	DNA- and RNA-SIP Reveal spp. as Key Drivers of Nitrification in Groundwater-Fed Biofilters. <i>MBio</i> , 2019 , 10,	7.8	18
48	Challenges in using allylthiourea and chlorate as specific nitrification inhibitors. <i>Chemosphere</i> , 2017 , 182, 301-305	8.4	15
47	BIOGEOCHEMISTRY. A new diet for methane oxidizers. <i>Science</i> , 2016 , 351, 658	33.3	14
46	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	2.3	14
45	ANAEROBIC AMMONIUM OXIDATION IN THE MARINE ENVIRONMENT 2006 , 311-335		14
44	The Methane Cycle. <i>Advances in Marine Biology</i> , 2005 , 48, 383-418	2.1	13
43	Competition for inorganic carbon between oxygenic and anoxygenic phototrophs in a hypersaline microbial mat, Guerrero Negro, Mexico. <i>Environmental Microbiology</i> , 2013 , 15, 1532-50	5.2	12
42	The Phosphorus Cycle. <i>Advances in Marine Biology</i> , 2005 , 48, 419-440	2.1	12
41	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	3	12

40	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	3.7	11
39	Heterotrophic Carbon Metabolism. <i>Advances in Marine Biology</i> , 2005 , 48, 129-166	2.1	11
38	The Nitrogen Cycle. <i>Advances in Marine Biology</i> , 2005 , 205-267	2.1	11
37	N ₂ production through denitrification and anammox across the continental margin (shelflope rise) of the Ulleung Basin, East Sea. <i>Limnology and Oceanography</i> , 2018 , 63, S410-S424	4.8	10
36	Effect of settled diatom-aggregates on benthic nitrogen cycling. <i>Limnology and Oceanography</i> , 2018 , 63, 431-444	4.8	10
35	Nutrient availability limits biological production in Arctic sea ice melt ponds. <i>Polar Biology</i> , 2017 , 40, 1593-1606	2	9
34	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	2.2	9
33	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	10.2	9
32	The Silicon Cycle. <i>Advances in Marine Biology</i> , 2005 , 48, 441-463	2.1	9
31	Nitrogen cycling and bacterial community structure of sinking and aging diatom aggregates. <i>Aquatic Microbial Ecology</i> , 2017 , 79, 85-99	1.1	9
30	Distinct nitrogen cycling and steep chemical gradients in Trichodesmium colonies. <i>ISME Journal</i> , 2020 , 14, 399-412	11.9	9
29	Vertical segregation among pathways mediating nitrogen loss (N ₂ and N ₂ O production) across the oxygen gradient in a coastal upwelling ecosystem. <i>Biogeosciences</i> , 2017 , 14, 4795-4813	4.6	8
28	Benthic mineralization and solute exchange on a Celtic Sea sand-bank (Jones Bank). <i>Progress in Oceanography</i> , 2013 , 117, 64-75	3.8	8
27	Spatial variability of prokaryotic and viral abundances in the Kermadec and Atacama Trench regions. <i>Limnology and Oceanography</i> , 2021 , 66, 2095-2109	4.8	8
26	Controls of HS, Fe, and Mn on Microbial NO ₃ ⁻ -Reducing Processes in Sediments of an Eutrophic Lake. <i>Frontiers in Microbiology</i> , 2020 , 11, 1158	5.7	7
25	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	3.8	7
24	Sulfur cycling in oceanic oxygen minimum zones. <i>Limnology and Oceanography</i> , 2021 , 66, 2360-2392	4.8	6
23	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,	4.5	5

22	Geochemistry. New players in an ancient cycle. <i>Science</i> , 2007 , 317, 1508-9	33.3	5
21	Thermodynamics and Microbial Metabolism. <i>Advances in Marine Biology</i> , 2005 , 48, 65-94	2.1	5
20	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	1.5	4
19	The regulation of oxygen to low concentrations in marine oxygen-minimum zones. <i>Journal of Marine Research</i> , 2019 , 77, 297-324	1.5	4
18	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,	11.5	4
17	Extracellular Electron Uptake by Two Methanosarcina Species		4
16	Influence of settling organic matter quantity and quality on benthic nitrogen cycling. <i>Limnology and Oceanography</i> , 2021 , 66, 1882-1895	4.8	4
15	High mercury accumulation in deep-ocean hadal sediments. <i>Scientific Reports</i> , 2021 , 11, 10970	4.9	4
14	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	11.9	4
13	Coupled nitrification and N gas production as a cryptic process in oxic riverbeds. <i>Nature Communications</i> , 2021 , 12, 1217	17.4	4
12	Freshwater copepod carcasses as pelagic microsites of dissimilatory nitrate reduction to ammonium. <i>FEMS Microbiology Ecology</i> , 2018 , 94,	4.3	4
11	Carbon Fixation and Phototrophy. <i>Advances in Marine Biology</i> , 2005 , 48, 95-127	2.1	3
10	The Archean atmosphere and sedimentary sulfides. <i>Science</i> , 2000 , 289, 1297-8	33.3	3
9	Interspecies interactions mediated by conductive minerals in the sediments of the ferruginous Lake La Cruz, Spain		3
8	Benthic nitrogen cycling in the North Sea. <i>Continental Shelf Research</i> , 2019 , 185, 31-36	2.4	2
7	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	2.6	2
6	Nitrogen isotope dynamics and fractionation during sedimentary denitrification in Boknis Eck, Baltic Sea		2
5	Baltic Methanosarcina and Clostridium compete for electrons from metallic iron		2

4	Sulfate- and iron-dependent anaerobic methane oxidation occurring side-by-side in freshwater lake sediment. <i>Limnology and Oceanography</i> ,	4.8	1
3	Oxygen production by an ammonia-oxidizing archaeon		1
2	Microbial bioremediation of produced water under different redox conditions in marine sediments.. <i>Water Research</i> , 2022 , 218, 118428	12.5	0
1	Microbial bioremediation of produced water under different redox conditions in marine sediments. <i>Water Research X</i> , 2022 , 100142	8.1	