

# Bo Barker JÃ¸rgensen

## List of Publications by Year in descending order

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127  
papers

23,138  
citations

15503

65  
h-index

17104

122  
g-index

128  
all docs

128  
docs citations

128  
times ranked

12665  
citing authors

#	ARTICLE	IF	CITATIONS
1	Response to substrate limitation by a marine sulfate-reducing bacterium. <i>ISME Journal</i> , 2022, 16, 200-210.	9.8	7
2	Multiple sulfur isotopes discriminate organoclastic and methane-based sulfate reduction by sub-seafloor pyrite formation. <i>Geochimica Et Cosmochimica Acta</i> , 2022, 316, 309-330.	3.9	28
3	Influence of Fe(III) source, light quality, photon flux and presence of oxygen on photoreduction of Fe(III)-organic complexes – Implications for light-influenced coastal freshwater and marine sediments. <i>Science of the Total Environment</i> , 2022, 814, 152767.	8.0	5
4	Sediment oxygen consumption: Role in the global marine carbon cycle. <i>Earth-Science Reviews</i> , 2022, 228, 103987.	9.1	50
5	Psychrophilic properties of sulfate-reducing bacteria in Arctic marine sediments. <i>Limnology and Oceanography</i> , 2021, 66, S293.	3.1	8
6	Benthic iron flux influenced by climate-sensitive interplay between organic carbon availability and sedimentation rate in Arctic fjords. <i>Limnology and Oceanography</i> , 2021, 66, 3374-3392.	3.1	11
7	Tight benthic-pelagic coupling drives seasonal and interannual changes in iron-sulfur cycling in Arctic fjord sediments (Kongsfjorden, Svalbard). <i>Journal of Marine Systems</i> , 2021, , 103645.	2.1	5
8	Early diagenesis of sulfur in Bornholm Basin sediments: The role of upward diffusion of isotopically –heavy-sulfide. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 313, 359-377.	3.9	7
9	Glacial controls on redox-sensitive trace element cycling in Arctic fjord sediments (Spitsbergen.) Tj ETQq1 1 0.784314 rgBT /Overlock	3.9	19
10	Early diagenesis of iron and sulfur in Bornholm Basin sediments: The role of near-surface pyrite formation. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 284, 43-60.	3.9	33
11	Macrofaunal control of microbial community structure in continental margin sediments. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 15911-15922.	7.1	40
12	The multiple sulphur isotope fingerprint of a sub-seafloor oxidative sulphur cycle driven by iron. <i>Earth and Planetary Science Letters</i> , 2020, 536, 116165.	4.4	29
13	Glacial influence on the iron and sulfur cycles in Arctic fjord sediments (Svalbard). <i>Geochimica Et Cosmochimica Acta</i> , 2020, 280, 423-440.	3.9	20
14	Quantification of sulphide oxidation rates in marine sediment. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 280, 441-452.	3.9	27
15	Factors controlling the carbon isotope composition of dissolved inorganic carbon and methane in marine porewater: An evaluation by reaction-transport modelling. <i>Journal of Marine Systems</i> , 2019, 200, 103227.	2.1	35
16	Sulphur and carbon isotopes as tracers of past sub-seafloor microbial activity. <i>Scientific Reports</i> , 2019, 9, 604.	3.3	19
17	Unravelling the sulphur cycle of marine sediments. <i>Environmental Microbiology</i> , 2019, 21, 3533-3538.	3.8	12
18	Controls on volatile fatty acid concentrations in marine sediments (Baltic Sea). <i>Geochimica Et Cosmochimica Acta</i> , 2019, 258, 226-241.	3.9	38

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19	Marine Deep Biosphere Microbial Communities Assemble in Near-Surface Sediments in Aarhus Bay. <i>Frontiers in Microbiology</i> , 2019, 10, 758.	3.5	54
20	Environmental filtering determines family-level structure of sulfate-reducing microbial communities in subsurface marine sediments. <i>ISME Journal</i> , 2019, 13, 1920-1932.	9.8	40
21	Organoclastic sulfate reduction in the sulfate-methane transition of marine sediments. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 254, 231-245.	3.9	56
22	The Biogeochemical Sulfur Cycle of Marine Sediments. <i>Frontiers in Microbiology</i> , 2019, 10, 849.	3.5	375
23	Preservation of microbial DNA in marine sediments: insights from extracellular DNA pools. <i>Environmental Microbiology</i> , 2018, 20, 4526-4542.	3.8	48
24	Global diffusive fluxes of methane in marine sediments. <i>Nature Geoscience</i> , 2018, 11, 421-425.	12.9	192
25	Bacterial interactions during sequential degradation of cyanobacterial necromass in a sulfidic arctic marine sediment. <i>Environmental Microbiology</i> , 2018, 20, 2927-2940.	3.8	50
26	Iron oxide reduction in methane-rich deep Baltic Sea sediments. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 207, 256-276.	3.9	95
27	Iron-controlled oxidative sulfur cycling recorded in the distribution and isotopic composition of sulfur species in glacially influenced fjord sediments of west Svalbard. <i>Chemical Geology</i> , 2017, 466, 678-695.	3.3	33
28	Depth Distribution and Assembly of Sulfate-Reducing Microbial Communities in Marine Sediments of Aarhus Bay. <i>Applied and Environmental Microbiology</i> , 2017, 83, .	3.1	53
29	Thriving or surviving? Evaluating active microbial guilds in Baltic Sea sediment. <i>Environmental Microbiology Reports</i> , 2017, 9, 528-536.	2.4	39
30	Bioturbation as a key driver behind the dominance of Bacteria over Archaea in near-surface sediment. <i>Scientific Reports</i> , 2017, 7, 2400.	3.3	73
31	Microbial turnover times in the deep seabed studied by amino acid racemization modelling. <i>Scientific Reports</i> , 2017, 7, 5680.	3.3	61
32	The marine sulfate reducer <i>Desulfobacterium autotrophicum</i> HRM2 can switch between low and high apparent half-saturation constants for dissimilatory sulfate reduction. <i>FEMS Microbiology Ecology</i> , 2017, 93, .	2.7	24
33	Estimating the Abundance of Endospores of Sulfate-Reducing Bacteria in Environmental Samples by Inducing Germination and Exponential Growth. <i>Geomicrobiology Journal</i> , 2017, 34, 338-345.	2.0	11
34	Anaerobic microbial Fe(II) oxidation and Fe(III) reduction in coastal marine sediments controlled by organic carbon content. <i>Environmental Microbiology</i> , 2016, 18, 3159-3174.	3.8	42
35	Transcriptional analysis of sulfate reducing and chemolithoautotrophic sulfur oxidizing bacteria in the deep subseafloor. <i>Environmental Microbiology Reports</i> , 2016, 8, 452-460.	2.4	32
36	Single-Cell Genome and Group-Specific <i>dsrAB</i> Sequencing Implicate Marine Members of the Class <i>Dehalococcoidia</i> (Phylum <i>Chloroflexi</i> ) in Sulfur Cycling. <i>MBio</i> , 2016, 7, .	4.1	78

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37	Controls on subsurface methane fluxes and shallow gas formation in Baltic Sea sediment (Aarhus) Tj ETQq1 1 0.784314 rgBT /Overlock	3.9	57
38	Coexistence of Microaerophilic, Nitrate-Reducing, and Phototrophic Fe(II) Oxidizers and Fe(III) Reducers in Coastal Marine Sediment. Applied and Environmental Microbiology, 2016, 82, 1433-1447.	3.1	76
39	Activity and community structures of sulfate-reducing microorganisms in polar, temperate and tropical marine sediments. ISME Journal, 2016, 10, 796-809.	9.8	85
40	Slow Microbial Life in the Seabed. Annual Review of Marine Science, 2016, 8, 311-332.	11.6	134
41	Life under extreme energy limitation: a synthesis of laboratory- and field-based investigations. FEMS Microbiology Reviews, 2015, 39, 688-728.	8.6	288
42	Origin, dynamics, and implications of extracellular DNA pools in marine sediments. Marine Genomics, 2015, 24, 185-196.	1.1	255
43	Uncultured <i>Desulfobacteraceae</i> and <i>Crenarchaeotal</i> group <i>C3</i> incorporate <sup>13</sup> C-acetate in coastal marine sediment. Environmental Microbiology Reports, 2015, 7, 614-622.	2.4	51
44	Genome sequencing of a single cell of the widely distributed marine subsurface <i>Dehalococcoidia</i> phylum <i>Chloroflexi</i> . ISME Journal, 2014, 8, 383-397.	9.8	172
45	Sulfidization of lacustrine glacial clay upon Holocene marine transgression (Arkona Basin, Baltic) Tj ETQq1 1 0.784314 rgBT /Overlock	3.9	38
46	Direct analysis of volatile fatty acids in marine sediment porewater by two-dimensional ion chromatography-mass spectrometry. Limnology and Oceanography: Methods, 2014, 12, 455-468.	2.0	46
47	<i>Desulfoconvexum algidum</i> gen. nov., sp. nov., a psychrophilic sulfate-reducing bacterium isolated from a permanently cold marine sediment. International Journal of Systematic and Evolutionary Microbiology, 2013, 63, 959-964.	1.7	36
48	Dispersal of thermophilic <i>Desulfotomaculum</i> endospores into Baltic Sea sediments over thousands of years. ISME Journal, 2013, 7, 72-84.	9.8	82
49	Microbial life under extreme energy limitation. Nature Reviews Microbiology, 2013, 11, 83-94.	28.6	582
50	The Impact of Sediment and Carbon Fluxes on the Biogeochemistry of Methane and Sulfur in Littoral Baltic Sea Sediments (Himmerfjärden, Sweden). Estuaries and Coasts, 2013, 36, 98-115.	2.2	42
51	Control of sulphate and methane distributions in marine sediments by organic matter reactivity. Geochimica Et Cosmochimica Acta, 2013, 104, 183-193.	3.9	72
52	Cyclic 100-ka (glacial-interglacial) migration of subseafloor redox zonation on the Peruvian shelf. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 18098-18103.	7.1	35
53	Shrinking majority of the deep biosphere. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 15976-15977.	7.1	55
54	Estimation of biogeochemical rates from concentration profiles: A novel inverse method. Estuarine, Coastal and Shelf Science, 2012, 100, 26-37.	2.1	32

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55	Concurrent low- and high-affinity sulfate reduction kinetics in marine sediment. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 2997-3010.	3.9	61
56	A cryptic sulfur cycle driven by iron in the methane zone of marine sediment (Aarhus Bay, Denmark). <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 3581-3599.	3.9	288
57	Sulfate reduction below the sulfate-methane transition in Black Sea sediments. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2011, 58, 493-504.	1.4	70
58	Phosphate geochemistry, mineralization processes, and <i>Thioploca</i> distribution in shelf sediments off central Chile. <i>Marine Geology</i> , 2010, 277, 61-72.	2.1	22
59	Filamentous sulfur bacteria, <i>Beggiatoa</i> spp., in arctic marine sediments (Svalbard, 79°N). <i>FEMS Microbiology Ecology</i> , 2010, 73, no-no.	2.7	31
60	Big sulfur bacteria. <i>ISME Journal</i> , 2010, 4, 1083-1084.	9.8	18
61	Thermophilic anaerobes in Arctic marine sediments induced to mineralize complex organic matter at high temperature. <i>Environmental Microbiology</i> , 2010, 12, 1089-1104.	3.8	61
62	Sulfate-reducing bacteria in marine sediment (Aarhus Bay, Denmark): abundance and diversity related to geochemical zonation. <i>Environmental Microbiology</i> , 2009, 11, 1278-1291.	3.8	195
63	Response of fermentation and sulfate reduction to experimental temperature changes in temperate and Arctic marine sediments. <i>ISME Journal</i> , 2008, 2, 815-829.	9.8	68
64	Biogeochemistry of sulfur and iron in <i>Thioploca</i> -colonized surface sediments in the upwelling area off central Chile. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 827-843.	3.9	73
65	Microbial ecology of the stratified water column of the Black Sea as revealed by a comprehensive biomarker study. <i>Organic Geochemistry</i> , 2007, 38, 2070-2097.	1.8	184
66	Feast and famine – microbial life in the deep-sea bed. <i>Nature Reviews Microbiology</i> , 2007, 5, 770-781.	28.6	577
67	Biological and chemical sulfide oxidation in a <i>Beggiatoa</i> inhabited marine sediment. <i>ISME Journal</i> , 2007, 1, 341-353.	9.8	170
68	Diversity and abundance of sulfate-reducing microorganisms in the sulfate and methane zones of a marine sediment, Black Sea. <i>Environmental Microbiology</i> , 2007, 9, 131-142.	3.8	233
69	Bacteria and Marine Biogeochemistry. , 2006, , 169-206.		86
70	ECOLOGY: A Starving Majority Deep Beneath the Seafloor. <i>Science</i> , 2006, 314, 932-934.	12.6	122
71	Sulfur Cycling and Methane Oxidation. , 2006, , 271-309.		159
72	<i>Desulfovibrio frigidus</i> sp. nov. and <i>Desulfovibrio ferrireducens</i> sp. nov., psychrotolerant bacteria isolated from Arctic fjord sediments (Svalbard) with the ability to reduce Fe(III). <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2006, 56, 681-685.	1.7	47

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73	Environmental control on anaerobic oxidation of methane in the gassy sediments of Eckernförde Bay (German Baltic). <i>Limnology and Oceanography</i> , 2005, 50, 1771-1786.	3.1	181
74	From The Cover: Massive nitrogen loss from the Benguela upwelling system through anaerobic ammonium oxidation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 6478-6483.	7.1	664
75	Anaerobic oxidation of methane and sulfate reduction along the Chilean continental margin. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 2767-2779.	3.9	173
76	Distributions of Microbial Activities in Deep Subseafloor Sediments. <i>Science</i> , 2004, 306, 2216-2221.	12.6	681
77	Anaerobic methane oxidation and a deep H <sub>2</sub> S sink generate isotopically heavy sulfides in Black Sea sediments. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 2095-2118.	3.9	341
78	Phylogeny and distribution of nitrate-storing <i>Beggiatoa</i> spp. in coastal marine sediments. <i>Environmental Microbiology</i> , 2003, 5, 523-533.	3.8	91
79	Quantification of dissimilatory (bi)sulphite reductase gene expression in <i>Desulfobacterium autotrophicum</i> using real-time RT-PCR. <i>Environmental Microbiology</i> , 2003, 5, 660-671.	3.8	47
80	Anaerobic ammonium oxidation by anammox bacteria in the Black Sea. <i>Nature</i> , 2003, 422, 608-611.	27.8	1,081
81	Regulation of bacterial sulfate reduction and hydrogen sulfide fluxes in the central namibian coastal upwelling zone. <i>Geochimica Et Cosmochimica Acta</i> , 2003, 67, 4505-4518.	3.9	176
82	Characterization of Specific Membrane Fatty Acids as Chemotaxonomic Markers for Sulfate-Reducing Bacteria Involved in Anaerobic Oxidation of Methane. <i>Geomicrobiology Journal</i> , 2003, 20, 403-419.	2.0	222
83	Microbial Reefs in the Black Sea Fueled by Anaerobic Oxidation of Methane. <i>Science</i> , 2002, 297, 1013-1015.	12.6	673
84	Biogeochemistry of pyrite and iron sulfide oxidation in marine sediments. <i>Geochimica Et Cosmochimica Acta</i> , 2002, 66, 85-92.	3.9	285
85	Bacterial sulfate reduction in hydrothermal sediments of the Guaymas Basin, Gulf of California, Mexico. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2002, 49, 827-841.	1.4	78
86	Big Bacteria. <i>Annual Review of Microbiology</i> , 2001, 55, 105-137.	7.3	445
87	Algal and archaeal polyisoprenoids in a recent marine sediment: Molecular isotopic evidence for anaerobic oxidation of methane. <i>Geochemistry, Geophysics, Geosystems</i> , 2001, 2, n/a-n/a.	2.5	77
88	Controls on stable sulfur isotope fractionation during bacterial sulfate reduction in Arctic sediments. <i>Geochimica Et Cosmochimica Acta</i> , 2001, 65, 763-776.	3.9	106
89	Sulfate reduction in Black Sea sediments: in situ and laboratory radiotracer measurements from the shelf to 2000m depth. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2001, 48, 2073-2096.	1.4	43
90	Sulfate reduction and anaerobic methane oxidation in Black Sea sediments. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2001, 48, 2097-2120.	1.4	222

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91	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.	2.3	142
92	A marine microbial consortium apparently mediating anaerobic oxidation of methane. <i>Nature</i> , 2000, 407, 623-626.	27.8	2,636
93	<i>Bacteria and Marine Biogeochemistry</i> , , 2000, , 173-207.		110
94	<i>Sulfate Reduction in Marine Sediments</i> , , 2000, , 263-281.		51
95	Effect of temperature on sulphate reduction, growth rate and growth yield in five psychrophilic sulphate-reducing bacteria from Arctic sediments. <i>Environmental Microbiology</i> , 1999, 1, 457-467.	3.8	100
96	Community Size and Metabolic Rates of Psychrophilic Sulfate-Reducing Bacteria in Arctic Marine Sediments. <i>Applied and Environmental Microbiology</i> , 1999, 65, 4230-4233.	3.1	121
97	Temperature dependence of aerobic respiration in a coastal sediment. <i>FEMS Microbiology Ecology</i> , 1998, 25, 189-200.	2.7	114
98	Sulfate-Reducing Bacteria and Their Activities in Cyanobacterial Mats of Solar Lake (Sinai, Egypt). <i>Applied and Environmental Microbiology</i> , 1998, 64, 2943-2951.	3.1	204
99	Material flux in the sediment. <i>Coastal and Estuarine Studies</i> , 1996, , 115-135.	0.4	93
100	Case study " Aarhus Bay. <i>Coastal and Estuarine Studies</i> , 1996, , 137-154.	0.4	35
101	Die Mikrowelt der Meeresbakterien. <i>Die Naturwissenschaften</i> , 1995, 82, 269-278.	1.6	5
102	Sulfate reduction and thiosulfate transformations in a cyanobacterial mat during a diel oxygen cycle. <i>FEMS Microbiology Ecology</i> , 1994, 13, 303-312.	2.7	19
103	Diffusive and total oxygen uptake of deep-sea sediments in the eastern South Atlantic Ocean:in situ and laboratory measurements. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 1994, 41, 1767-1788.	1.4	258
104	Microbial sulfate reduction in deep-sea sediments at the Guaymas Basin hydrothermal vent area: Influence of temperature and substrates. <i>Geochimica Et Cosmochimica Acta</i> , 1994, 58, 3335-3343.	3.9	133
105	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.	3.9	70
106	Manganese, iron and sulfur cycling in a coastal marine sediment, Aarhus bay, Denmark. <i>Geochimica Et Cosmochimica Acta</i> , 1994, 58, 5115-5129.	3.9	584
107	<i>Diffusion processes and boundary layers in microbial mats</i> , , 1994, , 243-253.		24
108	Anoxic transformations of radiolabeled hydrogen sulfide in marine and freshwater sediments. <i>Geochimica Et Cosmochimica Acta</i> , 1992, 56, 2425-2435.	3.9	92

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109	Sulfur isotope exchange between <sup>35</sup> S-labeled inorganic sulfur compounds in anoxic marine sediments. <i>Marine Chemistry</i> , 1992, 38, 117-132.	2.3	36
110	Microsensor Measurements of Sulfate Reduction and Sulfide Oxidation in Compact Microbial Communities of Aerobic Biofilms. <i>Applied and Environmental Microbiology</i> , 1992, 58, 1164-1174.	3.1	252
111	Sulfide oxidation in the anoxic Black Sea chemocline. <i>Deep-sea Research Part A, Oceanographic Research Papers</i> , 1991, 38, S1083-S1103.	1.5	214
112	Pathways and Microbiology of Thiosulfate Transformations and Sulfate Reduction in a Marine Sediment (Kattegat, Denmark). <i>Applied and Environmental Microbiology</i> , 1991, 57, 847-856.	3.1	329
113	Thermophilic bacterial sulfate reduction in deep-sea sediments at the Guaymas Basin hydrothermal vent site (Gulf of California). <i>Deep-sea Research Part A, Oceanographic Research Papers</i> , 1990, 37, 695-710.	1.5	74
114	Oxidation and reduction of radiolabeled inorganic sulfur compounds in an estuarine sediment, Kysing Fjord, Denmark. <i>Geochimica Et Cosmochimica Acta</i> , 1990, 54, 2731-2742.	3.9	107
115	Sulfate reduction in marine sediments from the Baltic Sea-North Sea Transition. <i>Ophelia</i> , 1989, 31, 1-15.	0.3	34
116	Measurement of bacterial sulfate reduction in sediments: Evaluation of a single-step chromium reduction method. <i>Biogeochemistry</i> , 1989, 8, 205.	3.5	702
117	Oxygen uptake, bacterial distribution, and carbon-nitrogen-sulfur cycling in sediments from the baltic sea - North sea transition. <i>Ophelia</i> , 1989, 31, 29-49.	0.3	60
118	Sulfate reduction and the formation of <sup>35</sup> S-labeled FeS, FeS <sub>2</sub> , and SO in coastal marine sediments. <i>Limnology and Oceanography</i> , 1989, 34, 793-806.	3.1	151
119	Microelectrodes: Their Use in Microbial Ecology. <i>Advances in Microbial Ecology</i> , 1986, , 293-352.	0.1	668
120	Microoxic-Anoxic Niche of <i>Beggiatoa</i> spp.: Microelectrode Survey of Marine and Freshwater Strains. <i>Applied and Environmental Microbiology</i> , 1986, 52, 161-168.	3.1	98
121	Diffusive boundary layers and the oxygen uptake of sediments and detritus <sup>1</sup> . <i>Limnology and Oceanography</i> , 1985, 30, 111-122.	3.1	638
122	Emissions of biogenic sulfur gases from a danish estuary. <i>Atmospheric Environment</i> , 1985, 19, 1737-1749.	1.0	77
123	Seasonal dynamics of elemental sulfur in two coastal sediments. <i>Estuarine, Coastal and Shelf Science</i> , 1982, 15, 255-266.	2.1	160
124	Mineralization of organic matter in the sea bed—the role of sulphate reduction. <i>Nature</i> , 1982, 296, 643-645.	27.8	1,597
125	A comparison of oxygen, nitrate, and sulfate respiration in coastal marine sediments. <i>Microbial Ecology</i> , 1979, 5, 105-115.	2.8	232
126	The sulfur cycle of a coastal marine sediment (Limfjorden, Denmark) <sup>1</sup> . <i>Limnology and Oceanography</i> , 1977, 22, 814-832.	3.1	794



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127	Solar Lake (Sinai). 5. The sulfur cycle of the bcnthic cyanobacterial mats1. Limnology and Oceanography, 1977, 22, 657-666.	3.1	184