

# Bo Barker JÃ,rgensen

## List of Publications by Year in descending order

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127  
papers

23,138  
citations

15466

65  
h-index

17055

122  
g-index

128  
all docs

128  
docs citations

128  
times ranked

12665  
citing authors

#	ARTICLE	IF	CITATIONS
1	A marine microbial consortium apparently mediating anaerobic oxidation of methane. <i>Nature</i> , 2000, 407, 623-626.	13.7	2,636
2	Mineralization of organic matter in the sea bed—the role of sulphate reduction. <i>Nature</i> , 1982, 296, 643-645.	13.7	1,597
3	Anaerobic ammonium oxidation by anammox bacteria in the Black Sea. <i>Nature</i> , 2003, 422, 608-611.	13.7	1,081
4	The sulfur cycle of a coastal marine sediment (Limfjorden, Denmark)1. <i>Limnology and Oceanography</i> , 1977, 22, 814-832.	1.6	794
5	Measurement of bacterial sulfate reduction in sediments: Evaluation of a single-step chromium reduction method. <i>Biogeochemistry</i> , 1989, 8, 205.	1.7	702
6	Distributions of Microbial Activities in Deep Subseafloor Sediments. <i>Science</i> , 2004, 306, 2216-2221.	6.0	681
7	Microbial Reefs in the Black Sea Fueled by Anaerobic Oxidation of Methane. <i>Science</i> , 2002, 297, 1013-1015.	6.0	673
8	Microelectrodes: Their Use in Microbial Ecology. <i>Advances in Microbial Ecology</i> , 1986, , 293-352.	0.1	668
9	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.	3.3	664
10	Diffusive boundary layers and the oxygen uptake of sediments and detritus1. <i>Limnology and Oceanography</i> , 1985, 30, 111-122.	1.6	638
11	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
12	Microbial life under extreme energy limitation. <i>Nature Reviews Microbiology</i> , 2013, 11, 83-94.	13.6	582
13	Feast and famine — microbial life in the deep-sea bed. <i>Nature Reviews Microbiology</i> , 2007, 5, 770-781.	13.6	577
14	Big Bacteria. <i>Annual Review of Microbiology</i> , 2001, 55, 105-137.	2.9	445
15	The Biogeochemical Sulfur Cycle of Marine Sediments. <i>Frontiers in Microbiology</i> , 2019, 10, 849.	1.5	375
16	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.	1.6	341
17	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.	1.4	329
18	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.	1.6	288

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19	Life under extreme energy limitation: a synthesis of laboratory- and field-based investigations. <i>FEMS Microbiology Reviews</i> , 2015, 39, 688-728.	3.9	288
20	Biogeochemistry of pyrite and iron sulfide oxidation in marine sediments. <i>Geochimica Et Cosmochimica Acta</i> , 2002, 66, 85-92.	1.6	285
21	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.	0.6	258
22	Origin, dynamics, and implications of extracellular DNA pools in marine sediments. <i>Marine Genomics</i> , 2015, 24, 185-196.	0.4	255
23	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.	1.4	252
24	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.	1.8	233
25	A comparison of oxygen, nitrate, and sulfate respiration in coastal marine sediments. <i>Microbial Ecology</i> , 1979, 5, 105-115.	1.4	232
26	Sulfate reduction and anaerobic methane oxidation in Black Sea sediments. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2001, 48, 2097-2120.	0.6	222
27	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.	1.0	222
28	Sulfide oxidation in the anoxic Black Sea chemocline. <i>Deep-sea Research Part A, Oceanographic Research Papers</i> , 1991, 38, S1083-S1103.	1.6	214
29	Sulfate-Reducing Bacteria and Their Activities in Cyanobacterial Mats of Solar Lake (Sinai, Egypt). <i>Applied and Environmental Microbiology</i> , 1998, 64, 2943-2951.	1.4	204
30	Sulfate-reducing bacteria in marine sediment (Aarhus Bay, Denmark): abundance and diversity related to geochemical zonation. <i>Environmental Microbiology</i> , 2009, 11, 1278-1291.	1.8	195
31	Global diffusive fluxes of methane in marine sediments. <i>Nature Geoscience</i> , 2018, 11, 421-425.	5.4	192
32	Solar Lake (Sinai). 5. The sulfur cycle of the benthic cyanobacterial mats. <i>Limnology and Oceanography</i> , 1977, 22, 657-666.	1.6	184
33	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.	0.9	184
34	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.	1.6	181
35	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.	1.6	176
36	Anaerobic oxidation of methane and sulfate reduction along the Chilean continental margin. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 2767-2779.	1.6	173

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37	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.	4.4	172
38	Biological and chemical sulfide oxidation in a <i>Beggiatoa</i> inhabited marine sediment. ISME Journal, 2007, 1, 341-353.	4.4	170
39	Seasonal dynamics of elemental sulfur in two coastal sediments. Estuarine, Coastal and Shelf Science, 1982, 15, 255-266.	0.9	160
40	Sulfur Cycling and Methane Oxidation. , 2006, , 271-309.		159
41	Sulfate reduction and the formation of <sup>35</sup> S-labeled FeS, FeS <sub>2</sub> , and S <sub>0</sub> in coastal marine sediments. Limnology and Oceanography, 1989, 34, 793-806.	1.6	151
42	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.	0.9	142
43	Slow Microbial Life in the Seabed. Annual Review of Marine Science, 2016, 8, 311-332.	5.1	134
44	Microbial sulfate reduction in deep-sea sediments at the Guaymas Basin hydrothermal vent area: Influence of temperature and substrates. Geochimica Et Cosmochimica Acta, 1994, 58, 3335-3343.	1.6	133
45	ECOLOGY: A Starving Majority Deep Beneath the Seafloor. Science, 2006, 314, 932-934.	6.0	122
46	Community Size and Metabolic Rates of Psychrophilic Sulfate-Reducing Bacteria in Arctic Marine Sediments. Applied and Environmental Microbiology, 1999, 65, 4230-4233.	1.4	121
47	Temperature dependence of aerobic respiration in a coastal sediment. FEMS Microbiology Ecology, 1998, 25, 189-200.	1.3	114
48	Bacteria and Marine Biogeochemistry. , 2000, , 173-207.		110
49	Oxidation and reduction of radiolabeled inorganic sulfur compounds in an estuarine sediment, Kysing Fjord, Denmark. Geochimica Et Cosmochimica Acta, 1990, 54, 2731-2742.	1.6	107
50	Controls on stable sulfur isotope fractionation during bacterial sulfate reduction in Arctic sediments. Geochimica Et Cosmochimica Acta, 2001, 65, 763-776.	1.6	106
51	Effect of temperature on sulphate reduction, growth rate and growth yield in five psychrophilic sulphate-reducing bacteria from Arctic sediments. Environmental Microbiology, 1999, 1, 457-467.	1.8	100
52	Microoxic-Anoxic Niche of <i>Beggiatoa</i> spp.: Microelectrode Survey of Marine and Freshwater Strains. Applied and Environmental Microbiology, 1986, 52, 161-168.	1.4	98
53	Iron oxide reduction in methane-rich deep Baltic Sea sediments. Geochimica Et Cosmochimica Acta, 2017, 207, 256-276.	1.6	95
54	Material flux in the sediment. Coastal and Estuarine Studies, 1996, , 115-135.	0.4	93

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55	Anoxic transformations of radiolabeled hydrogen sulfide in marine and freshwater sediments. <i>Geochimica Et Cosmochimica Acta</i> , 1992, 56, 2425-2435.	1.6	92
56	Phylogeny and distribution of nitrate-storing <i>Beggiatoa</i> spp. in coastal marine sediments. <i>Environmental Microbiology</i> , 2003, 5, 523-533.	1.8	91
57	<i>Bacteria and Marine Biogeochemistry</i> , 2006, , 169-206.		86
58	Activity and community structures of sulfate-reducing microorganisms in polar, temperate and tropical marine sediments. <i>ISME Journal</i> , 2016, 10, 796-809.	4.4	85
59	Dispersal of thermophilic <i>Desulfotomaculum</i> endospores into Baltic Sea sediments over thousands of years. <i>ISME Journal</i> , 2013, 7, 72-84.	4.4	82
60	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.	0.6	78
61	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, .	1.8	78
62	Emissions of biogenic sulfur gases from a danish estuary. <i>Atmospheric Environment</i> , 1985, 19, 1737-1749.	1.1	77
63	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.	1.0	77
64	Coexistence of Microaerophilic, Nitrate-Reducing, and Phototrophic Fe(II) Oxidizers and Fe(III) Reducers in Coastal Marine Sediment. <i>Applied and Environmental Microbiology</i> , 2016, 82, 1433-1447.	1.4	76
65	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.	1.6	74
66	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.	1.6	73
67	Bioturbation as a key driver behind the dominance of Bacteria over Archaea in near-surface sediment. <i>Scientific Reports</i> , 2017, 7, 2400.	1.6	73
68	Control of sulphate and methane distributions in marine sediments by organic matter reactivity. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 104, 183-193.	1.6	72
69	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
70	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.	0.6	70
71	Response of fermentation and sulfate reduction to experimental temperature changes in temperate and Arctic marine sediments. <i>ISME Journal</i> , 2008, 2, 815-829.	4.4	68
72	Thermophilic anaerobes in Arctic marine sediments induced to mineralize complex organic matter at high temperature. <i>Environmental Microbiology</i> , 2010, 12, 1089-1104.	1.8	61

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73	Concurrent low- and high-affinity sulfate reduction kinetics in marine sediment. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 2997-3010.	1.6	61
74	Microbial turnover times in the deep seabed studied by amino acid racemization modelling. <i>Scientific Reports</i> , 2017, 7, 5680.	1.6	61
75	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
76	Controls on subsurface methane fluxes and shallow gas formation in Baltic Sea sediment (Aarhus) Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50	1.6	57
77	Organoclastic sulfate reduction in the sulfate-methane transition of marine sediments. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 254, 231-245.	1.6	56
78	Shrinking majority of the deep biosphere. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 15976-15977.	3.3	55
79	Marine Deep Biosphere Microbial Communities Assemble in Near-Surface Sediments in Aarhus Bay. <i>Frontiers in Microbiology</i> , 2019, 10, 758.	1.5	54
80	Depth Distribution and Assembly of Sulfate-Reducing Microbial Communities in Marine Sediments of Aarhus Bay. <i>Applied and Environmental Microbiology</i> , 2017, 83, .	1.4	53
81	Uncultured <i>Desulfobacteraceae</i> and <i>Crenarchaeota</i> group incorporate <sup>13</sup> C-acetate in coastal marine sediment. <i>Environmental Microbiology Reports</i> , 2015, 7, 614-622.	1.0	51
82	Sulfate Reduction in Marine Sediments. , 2000, , 263-281.		51
83	Bacterial interactions during sequential degradation of cyanobacterial necromass in a sulfidic arctic marine sediment. <i>Environmental Microbiology</i> , 2018, 20, 2927-2940.	1.8	50
84	Sediment oxygen consumption: Role in the global marine carbon cycle. <i>Earth-Science Reviews</i> , 2022, 228, 103987.	4.0	50
85	Preservation of microbial DNA in marine sediments: insights from extracellular DNA pools. <i>Environmental Microbiology</i> , 2018, 20, 4526-4542.	1.8	48
86	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.	1.8	47
87	<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.	0.8	47
88	Direct analysis of volatile fatty acids in marine sediment porewater by two-dimensional ion chromatography-mass spectrometry. <i>Limnology and Oceanography: Methods</i> , 2014, 12, 455-468.	1.0	46
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.	0.6	43
90	The Impact of Sediment and Carbon Fluxes on the Biogeochemistry of Methane and Sulfur in Littoral Baltic Sea Sediments (Himmerfjärden, Sweden). <i>Estuaries and Coasts</i> , 2013, 36, 98-115.	1.0	42

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91	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.	1.8	42
92	Environmental filtering determines family-level structure of sulfate-reducing microbial communities in subsurface marine sediments. <i>ISME Journal</i> , 2019, 13, 1920-1932.	4.4	40
93	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.	3.3	40
94	Thriving or surviving? Evaluating active microbial guilds in Baltic Sea sediment. <i>Environmental Microbiology Reports</i> , 2017, 9, 528-536.	1.0	39
95	Sulfidization of lacustrine glacial clay upon Holocene marine transgression (Arkona Basin, Baltic). <i>Journal of Geology</i> , 2019, 127, 107-114.	1.6	38
96	Controls on volatile fatty acid concentrations in marine sediments (Baltic Sea). <i>Geochimica Et Cosmochimica Acta</i> , 2019, 258, 226-241.	1.6	38
97	Sulfur isotope exchange between <sup>35</sup> S-labeled inorganic sulfur compounds in anoxic marine sediments. <i>Marine Chemistry</i> , 1992, 38, 117-132.	0.9	36
98	<i>Desulfoconvexum algidum</i> gen. nov., sp. nov., a psychrophilic sulfate-reducing bacterium isolated from a permanently cold marine sediment. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2013, 63, 959-964.	0.8	36
99	Case study of Aarhus Bay. <i>Coastal and Estuarine Studies</i> , 1996, , 137-154.	0.4	35
100	Cyclic 100-ka (glacial-interglacial) migration of subseafloor redox zonation on the Peruvian shelf. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 18098-18103.	3.3	35
101	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.	0.9	35
102	Sulfate reduction in marine sediments from the Baltic Sea-North Sea Transition. <i>Ophelia</i> , 1989, 31, 1-15.	0.3	34
103	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.	1.4	33
104	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.	1.6	33
105	Estimation of biogeochemical rates from concentration profiles: A novel inverse method. <i>Estuarine, Coastal and Shelf Science</i> , 2012, 100, 26-37.	0.9	32
106	Transcriptional analysis of sulfate reducing and chemolithoautotrophic sulfur oxidizing bacteria in the deep subseafloor. <i>Environmental Microbiology Reports</i> , 2016, 8, 452-460.	1.0	32
107	Filamentous sulfur bacteria, <i>Beggiatoa</i> spp., in arctic marine sediments (Svalbard, 79°N). <i>FEMS Microbiology Ecology</i> , 2010, 73, no-no.	1.3	31
108	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.	1.8	29

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109	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.	1.6	28
110	Quantification of sulphide oxidation rates in marine sediment. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 280, 441-452.	1.6	27
111	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, .	1.3	24
112	Diffusion processes and boundary layers in microbial mats. , 1994, , 243-253.		24
113	Phosphate geochemistry, mineralization processes, and Thioploca distribution in shelf sediments off central Chile. <i>Marine Geology</i> , 2010, 277, 61-72.	0.9	22
114	Glacial influence on the iron and sulfur cycles in Arctic fjord sediments (Svalbard). <i>Geochimica Et Cosmochimica Acta</i> , 2020, 280, 423-440.	1.6	20
115	Sulfate reduction and thiosulfate transformations in a cyanobacterial mat during a diel oxygen cycle. <i>FEMS Microbiology Ecology</i> , 1994, 13, 303-312.	1.3	19
116	Sulphur and carbon isotopes as tracers of past sub-seafloor microbial activity. <i>Scientific Reports</i> , 2019, 9, 604.	1.6	19
117	Glacial controls on redox-sensitive trace element cycling in Arctic fjord sediments (Spitsbergen.) Tj ETQq1 1 0.784314 rgBT /Overlock	1.6	19
118	Big sulfur bacteria. <i>ISME Journal</i> , 2010, 4, 1083-1084.	4.4	18
119	Unravelling the sulphur cycle of marine sediments. <i>Environmental Microbiology</i> , 2019, 21, 3533-3538.	1.8	12
120	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.	1.0	11
121	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.	1.6	11
122	Psychrophilic properties of sulfate-reducing bacteria in Arctic marine sediments. <i>Limnology and Oceanography</i> , 2021, 66, S293.	1.6	8
123	Response to substrate limitation by a marine sulfate-reducing bacterium. <i>ISME Journal</i> , 2022, 16, 200-210.	4.4	7
124	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.	1.6	7
125	Die Mikrowelt der Meeresbakterien. <i>Die Naturwissenschaften</i> , 1995, 82, 269-278.	0.6	5
126	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.	0.9	5



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127	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. Science of the Total Environment, 2022, 814, 152767.	3.9	5