Ronnie N Glud

List of Publications by Year
in descending order

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161 papers	10,349 citations	26610 56 h-index	40954 93 g-index
169 all docs	169 docs citations	169 times ranked	7814 citing authors

#	Article	IF	Citations
1	Sea ice contribution to the airâ€“sea CO₂ exchange in the Arctic and Southern Oceans. Tellus, Series B: Chemical and Physical Meteorology, 2022, 63, 823.	0.8	102
2	Aquatic Eddy Covariance: The Method and Its Contributions to Defining Oxygen and Carbon Fluxes in Marine Environments. Annual Review of Marine Science, 2022, 14, 431-455.	5.1	33
3	The hadal zone is an important and heterogeneous sink of black carbon in the ocean. Communications Earth & Environment, 2022, 3, .	2.6	14
4	Intra- and inter-spatial variability of meiofauna in hadal trenches is linked to microbial activity and food availability. Scientific Reports, 2022, 12, 4338.	1.6	5
5	Sediment oxygen consumption: Role in the global marine carbon cycle. Earth-Science Reviews, 2022, 228, 103987.	4.0	50
6	Contrasting Biophysical Controls on Carbon Dioxide and Methane Outgassing From Streams. Journal of Geophysical Research G: Biogeosciences, 2022, 127, .	1.3	11
7	Intracellular nitrate storage by diatoms can be an important nitrogen pool in freshwater and marine ecosystems. Communications Earth & Environment, 2022, 3, .	2.6	11
8	Mapping cold-water coral biomass: an approach to derive ecosystem functions. Coral Reefs, 2021, 40, 215-231.	0.9	16
9	Spatial variability of prokaryotic and viral abundances in the Kermadec and Atacama Trench regions. Limnology and Oceanography, 2021, 66, 2095-2109.	1.6	18
10	Element cycling and aquatic function in a changing Arctic. Limnology and Oceanography, 2021, 66, S1.	1.6	4
11	Distribution, Source, and Burial of Sedimentary Organic Carbon in Kermadec and Atacama Trenches. Journal of Geophysical Research G: Biogeosciences, 2021, 126, e2020JG006189.	1.3	16
12	High mercury accumulation in deep-ocean hadal sediments. Scientific Reports, 2021, 11, 10970.	1.6	24
13	Eurythenes atacamensis sp. nov. (Crustacea: Amphipoda) exhibits ontogenetic vertical stratification across abyssal and hadal depths in the Atacama Trench, eastern South Pacific Ocean. Marine Biodiversity, 2021, 51, 51.	0.3	9
14	Respiration by â€œmarine snowâ€•at high hydrostatic pressure: Insights from continuous oxygen measurements in a rotating pressure tank. Limnology and Oceanography, 2021, 66, 2797-2809.	1.6	13
15	Microbial community structure in hadal sediments: high similarity along trench axes and strong changes along redox gradients. ISME Journal, 2021, 15, 3455-3467.	4.4	29
16	Plankton respiration in the Atacama Trench region: Implications for particulate organic carbon flux into the hadal realm. Limnology and Oceanography, 2021, 66, 3134-3148.	1.6	10
17	A microsensorâ€based method for measuring respiration of individual nematodes. Methods in Ecology and Evolution, 2021, 12, 1841-1847.	2.2	4
18	Sediment reworking by the burrowing polychaete Hediste diversicolor modulated by environmental and biological factors across the temperate North Atlantic. A tribute to Gaston Desrosiers. Journal of Experimental Marine Biology and Ecology, 2021, 541, 151588.	0.7	10

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19	Hadal trenches are dynamic hotspots for early diagenesis in the deep sea. Communications Earth & Environment, 2021, 2, .	2.6	49
20	Spatial and temporal anoxia in single-osculum Halichondria panicea demosponge explants studied with planar optodes. Marine Biology, 2021, 168, 1.	0.7	9
21	Anammox bacteria drive fixed nitrogen loss in hadal trench sediments. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	20
22	Estimating Respiration Rates and Secondary Production of Macrobenthic Communities Across Coastal Habitats with Contrasting Structural Biodiversity. Ecosystems, 2020, 23, 630-647.	1.6	21
23	Sharp contrasts between freshwater and marine microbial enzymatic capabilities, community composition, and DOM pools in a NE Greenland fjord. Limnology and Oceanography, 2020, 65, 77-95.	1.6	17
24	Glycerol dialkyl glycerol tetraethers in surface sediments from three Pacific trenches: Distribution, source and environmental implications. Organic Geochemistry, 2020, 147, 104079.	0.9	18
25	Pore water conditions driving calcium carbonate dissolution in reef sands. Geochimica Et Cosmochimica Acta, 2020, 279, 16-28.	1.6	11
26	Meiofauna improve oxygenation and accelerate sulfide removal in the seasonally hypoxic seabed. Marine Environmental Research, 2020, 159, 104968.	1.1	20
27	Technical note: Estimating light-use efficiency of benthic habitats using underwater O₂ eddy covariance. Biogeosciences, 2020, 17, 4343-4353.	1.3	4
28	New Training to Meet the Global Phosphorus Challenge. Environmental Science & Technology, 2019, 53, 8479-8481.	4.6	29
29	Benthic primary production and respiration of shallow rocky habitats: a case study from South Bay (Doumer Island, Western Antarctic Peninsula). Polar Biology, 2019, 42, 1459-1474.	0.5	18
30	Benthic Oxygen and Nitrogen Exchange on a Cold-Water Coral Reef in the North-East Atlantic Ocean. Frontiers in Marine Science, 2019, 6, .	1.2	28
31	Seasonal metabolism and carbon export potential of a key coastal habitat: The perennial canopyâ€forming macroalga Fucus vesiculosus. Limnology and Oceanography, 2019, 64, 149-164.	1.6	46
32	Seasonal ecosystem metabolism across shallow benthic habitats measured by aquatic eddy covariance. Limnology and Oceanography Letters, 2019, 4, 79-86.	1.6	55
33	Depression chains in seafloor of contrasting morphology, Atacama Trench margin: a comment on Marshet al.(2018). Royal Society Open Science, 2019, 6, 182053.	1.1	7
34	Towards a sampling design for characterizing habitat-specific benthic biodiversity related to oxygen flux dynamics using Aquatic Eddy Covariance. PLoS ONE, 2019, 14, e0211673.	1.1	21
35	Cable bacteria promote DNRA through iron sulfide dissolution. Limnology and Oceanography, 2019, 64, 1228-1238.	1.6	38
36	Spatial heterogeneity and shortâ€term oxygen dynamics in the rhizosphere of Vallisneria spiralis: Implications for nutrient cycling. Freshwater Biology, 2019, 64, 532-543.	1.2	28

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37	Benthic Carbon Mineralization in Hadal Trenches: Insights From In Situ Determination of Benthic Oxygen Consumption. Geophysical Research Letters, 2018, 45, 2752-2760.	1.5	54
38	Deposition and benthic mineralization of organic carbon: A seasonal study from Faroe Islands. Journal of Marine Systems, 2018, 177, 53-61.	0.9	3
39	Effect of settled diatomâ€aggregates on benthic nitrogen cycling. Limnology and Oceanography, 2018, 63, 431-444.	1.6	11
40	Headwater gas exchange quantified from O₂ mass balances at the reach scale. Limnology and Oceanography: Methods, 2018, 16, 696-709.	1.0	6
41	Oxygen fluxes beneath Arctic land-fast ice and pack ice: towards estimates of ice productivity. Polar Biology, 2018, 41, 2119-2134.	0.5	10
42	Freshwater copepod carcasses as pelagic microsites of dissimilatory nitrate reduction to ammonium. FEMS Microbiology Ecology, 2018, 94, .	1.3	7
43	Modelling Marine Sediment Biogeochemistry: Current Knowledge Gaps, Challenges, and Some Methodological Advice for Advancement. Frontiers in Marine Science, 2018, 5, .	1.2	36
44	N2 production rates limited by nitrite availability in the Bay of Bengal oxygen minimum zone. Nature Geoscience, 2017, 10, 24-29.	5.4	180
45	Nutrient availability limits biological production in Arctic sea ice melt ponds. Polar Biology, 2017, 40, 1593-1606.	0.5	12
46	A mesocosm study of oxygen and trace metal dynamics in sediment microniches of reactive organic material. Scientific Reports, 2017, 7, 11369.	1.6	15
47	Effects of cattle slurry and nitrification inhibitor application on spatial soil O2 dynamics and N2O production pathways. Soil Biology and Biochemistry, 2017, 114, 200-209.	4.2	42
48	Reachâ€scale river metabolism across contrasting subâ€catchment geologies: Effect of light and hydrology. Limnology and Oceanography, 2017, 62, S381-S399.	1.6	22
49	A synthesis of the arctic terrestrial and marine carbon cycles under pressure from a dwindling cryosphere. Ambio, 2017, 46, 53-69.	2.8	56
50	Metabolism in anoxic permeable sediments is dominated by eukaryotic dark fermentation. Nature Geoscience, 2017, 10, 30-35.	5.4	31
51	Fixed-Nitrogen Loss Associated with Sinking Zooplankton Carcasses in a Coastal Oxygen Minimum Zone (Golfo Dulce, Costa Rica). Frontiers in Marine Science, 2017, 4, .	1.2	26
52	Anaerobic Nitrogen Turnover by Sinking Diatom Aggregates at Varying Ambient Oxygen Levels. Frontiers in Microbiology, 2016, 7, 98.	1.5	55
53	Intracellular Nitrate of Marine Diatoms as a Driver of Anaerobic Nitrogen Cycling in Sinking Aggregates. Frontiers in Microbiology, 2016, 7, 1669.	1.5	28
54	In situ quantification of ultraâ€low O ₂ concentrations in oxygen minimum zones: Application of novel optodes. Limnology and Oceanography: Methods, 2016, 14, 784-800.	1.0	28

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55	The transformation and fate of subâ€Arctic microphytobenthos carbon revealed through ¹³ Câ€labeling. Limnology and Oceanography, 2016, 61, 2296-2308.	1.6	17
56	Metabolomics Reveals Cryptic Interactive Effects of Species Interactions and Environmental Stress on Nitrogen and Sulfur Metabolism in Seagrass. Environmental Science & Technology, 2016, 50, 11602-11609.	4.6	48
57	Benthic Carbon Mineralization and Nutrient Turnover in a Scottish Sea Loch: An Integrative In Situ Study. Aquatic Geochemistry, 2016, 22, 443-467.	1.5	27
58	Comparison between infaunal communities of the deep floor and edge of the Tonga Trench: Possible effects of differences in organic matter supply. Deep-Sea Research Part I: Oceanographic Research Papers, 2016, 116, 264-275.	0.6	52
59	Copepod carcasses as microbial hot spots for pelagic denitrification. Limnology and Oceanography, 2015, 60, 2026-2036.	1.6	47
60	LUMOS - A Sensitive and Reliable Optode System for Measuring Dissolved Oxygen in the Nanomolar Range. PLoS ONE, 2015, 10, e0128125.	1.1	45
61	Phytoplankton Productivity in an Arctic Fjord (West Greenland): Estimating Electron Requirements for Carbon Fixation and Oxygen Production. PLoS ONE, 2015, 10, e0133275.	1.1	22
62	O2 dynamics in the rhizosphere of young rice plants (Oryza sativa L.) as studied by planar optodes. Plant and Soil, 2015, 390, 279-292.	1.8	65
63	An Assessment of the Precision and Confidence of Aquatic Eddy Correlation Measurements. Journal of Atmospheric and Oceanic Technology, 2015, 32, 642-655.	0.5	35
64	Heterogeneity of O2 dynamics in soil amended with animal manure and implications for greenhouse gas emissions. Soil Biology and Biochemistry, 2015, 84, 96-106.	4.2	59
65	Two decades of chemical imaging of solutes in sediments and soils â€“ a review. Analytica Chimica Acta, 2015, 878, 9-42.	2.6	156
66	Light indirectly mediates bivalve habitat modification and impacts on seagrass. Journal of Experimental Marine Biology and Ecology, 2015, 472, 41-53.	0.7	14
67	A new large egg type from the marine live feed calanoid copepod Acartia tonsa (Dana)â€”Perspectives for selective breeding of designer feed for hatcheries. Aquaculture, 2015, 436, 114-120.	1.7	14
68	Aquatic Eddy Correlation: Quantifying the Artificial Flux Caused by Stirring-Sensitive O2 Sensors. PLoS ONE, 2015, 10, e0116564.	1.1	36
69	Spatial Oxygen Distribution and Nitrous Oxide Emissions from Soil after Manure Application: A Novel Approach Using Planar Optodes. Journal of Environmental Quality, 2014, 43, 1809-1812.	1.0	23
70	Parameterization of atmosphereâ€“surface exchange of CO₂ over sea ice. Cryosphere, 2014, 8, 853-866.	1.5	18
71	Effects of temperature and irradiance on a benthic microalgal community: A combined twoâ€dimensional oxygen and fluorescence imaging approach. Limnology and Oceanography, 2014, 59, 1599-1611.	1.6	19
72	Anoxic microniches in marine sediments induced by aggregate settlement: biogeochemical dynamics and implications. Biogeochemistry, 2014, 119, 307.	1.7	28

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73	Localized Flux Maxima of Arsenic, Lead, and Iron around Root Apices in Flooded Lowland Rice. Environmental Science & Technology, 2014, 48, 8498-8506.	4.6	124
74	Recent sediment dynamics in hadal trenches: Evidence for the influence of higher-frequency (tidal,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.6	62
75	The isotope effect of denitrification in permeable sediments. Geochimica Et Cosmochimica Acta, 2014, 133, 156-167.	1.6	29
76	Quantifying tidally driven benthic oxygen exchange across permeable sediments: An aquatic eddy correlation study. Journal of Geophysical Research: Oceans, 2014, 119, 6918-6932.	1.0	57
77	Biological- and physical-induced oxygen dynamics in melting sea ice of the Fram Strait. Limnology and Oceanography, 2014, 59, 1097-1111.	1.6	28
78	Seasonal rates of benthic primary production in a Greenland fjord measured by aquatic eddy correlation. Limnology and Oceanography, 2014, 59, 1555-1569.	1.6	61
79	Composition, Buoyancy Regulation and Fate of Ice Algal Aggregates in the Central Arctic Ocean. PLoS ONE, 2014, 9, e107452.	1.1	101
80	Benthic mineralization and solute exchange on a Celtic Sea sand-bank (Jones Bank). Progress in Oceanography, 2013, 117, 64-75.	1.5	8
81	The relative contributions of biological and abiotic processes to carbon dynamics in subarctic sea ice. Polar Biology, 2013, 36, 1761-1777.	0.5	34
82	High rates of microbial carbon turnover in sediments in the deepest oceanic trench on Earth. Nature Geoscience, 2013, 6, 284-288.	5.4	262
83	Effects of transient bottom water currents and oxygen concentrations on benthic exchange rates as assessed by eddy correlation measurements. Journal of Geophysical Research: Oceans, 2013, 118, 1157-1169.	1.0	55
84	The kinetics of denitrification in permeable sediments. Biogeochemistry, 2013, 113, 563-572.	1.7	40
85	Transport Zonation Limits Coupled Nitrification-Denitrification in Permeable Sediments. Environmental Science & Technology, 2013, 47, 13404-13411.	4.6	65
86	Ikaite crystal distribution in winter sea ice and implications for CO₂ system dynamics. Cryosphere, 2013, 7, 707-718.	1.5	79
87	Hadal disturbance in the Japan Trench induced by the 2011 Tohokuâ€“Oki Earthquake. Scientific Reports, 2013, 3, 1915.	1.6	131
88	An Optode Sensor Array for Long-Term In Situ Oxygen Measurements in Soil and Sediment. Journal of Environmental Quality, 2013, 42, 1267-1273.	1.0	21
89	Ikaite crystals in melting sea ice â€“ implications for <i>p</i>CO₂ and pH levels in Arctic surface waters. Cryosphere, 2012, 6, 901-908.	1.5	91
90	A combined sensor for simultaneous high resolution 2âĐ imaging of oxygen and trace metals fluxes. Limnology and Oceanography: Methods, 2012, 10, 389-401.	1.0	42

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91	Quantifying denitrification in rippled permeable sands through combined flume experiments and modeling. Limnology and Oceanography, 2012, 57, 1217-1232.	1.6	77
92	Influence of porewater advection on denitrification in carbonate sands: Evidence from repacked sediment column experiments. Geochimica Et Cosmochimica Acta, 2012, 96, 247-258.	1.6	51
93	Bacterial carbon cycling in a subarctic fjord: A seasonal study on microbial activity, growth efficiency, and virus-induced mortality in Kobbefjord, Greenland. Limnology and Oceanography, 2012, 57, 1732-1742.	1.6	18
94	Oxygen exchange and ice melt measured at the ice-water interface by eddy correlation. Biogeosciences, 2012, 9, 1957-1967.	1.3	34
95	Linking Soil O₂, CO₂, and CH₄ Concentrations in a Wetland Soil: Implications for CO₂ and CH₄ Fluxes. Environmental Science & Technology, 2011, 45, 3393-3399.	4.6	103
96	Diel coral reef acidification driven by porewater advection in permeable carbonate sands, Heron Island, Great Barrier Reef. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	100
97	Comparison of three different methods for assessing in situ friction velocity: A case study from Loch Etive, Scotland. Limnology and Oceanography: Methods, 2011, 9, 275-287.	1.0	23
98	A simple and inexpensive high resolution color ratiometric planar optode imaging approach: application to oxygen and pH sensing.. Limnology and Oceanography: Methods, 2011, 9, 348-360.	1.0	180
99	Copepod guts as biogeochemical hotspots in the sea: Evidence from microelectrode profiling of Calanus spp. Limnology and Oceanography, 2011, 56, 666-672.	1.6	82
100	Growth limitation of three Arctic sea ice algal species: effects of salinity, pH, and inorganic carbon availability. Polar Biology, 2011, 34, 1157-1165.	0.5	29
101	Simple, robust eddy correlation amplifier for aquatic dissolved oxygen and hydrogen sulfide flux measurements. Limnology and Oceanography: Methods, 2011, 9, 340-347.	1.0	50
102	Oxygen penetration around burrows and roots in aquatic sediments. Journal of Marine Research, 2010, 68, 309-336.	0.3	32
103	Soil heterogeneity effects on O2 distribution and CH4 emissions from wetlands: In situ and mesocosm studies with planar O2 optodes and membrane inlet mass spectrometry. Soil Biology and Biochemistry, 2010, 42, 2254-2265.	4.2	52
104	Degradation of mussel (Mytilus edulis) fecal pellets released from hanging long-lines upon sinking and after settling at the sediment. Canadian Journal of Fisheries and Aquatic Sciences, 2010, 67, 1376-1387.	0.7	46
105	In situ microscale variation in distribution and consumption of ₂ : A case study from a deep ocean margin sediment (Sagami Bay, Japan). Limnology and Oceanography, 2009, 54, 1-12.	1.6	62
106	Nitrogen cycling in a deep ocean margin sediment (Sagami Bay, Japan). Limnology and Oceanography, 2009, 54, 723-734.	1.6	94
107	Increased CO₂ uptake due to sea ice growth and decay in the Nordic Seas. Journal of Geophysical Research, 2009, 114, .	3.3	86
108	Benthic microalgal production in the Arctic: applied methods and status of the current database. Botanica Marina, 2009, 52, 559-571.	0.6	82

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109	Eddy correlation measurements of oxygen uptake in deep ocean sediments. Limnology and Oceanography: Methods, 2009, 7, 576-584.	1.0	81
110	Biosensor for laboratory and landerâ€based analysis of benthic nitrate plus nitrite distribution in marine environments. Limnology and Oceanography: Methods, 2009, 7, 761-770.	1.0	15
111	Denitrification activity and oxygen dynamics in Arctic sea ice. Polar Biology, 2008, 31, 527-537.	0.5	95
112	TEMPERATURE EFFECTS ON MICROALGAL PHOTOSYNTHESISâ€LIGHT RESPONSES MEASURED BY O₂ PRODUCTION, PULSEâ€AMPLITUDEâ€MODULATED FLUORESCENCE, AND ¹⁴C ASSIMILATION¹. Journal of Phycology, 2008, 44, 501-514.	1.0	58
113	Oxygen dynamics of marine sediments. Marine Biology Research, 2008, 4, 243-289.	0.3	684
114	Viral dynamics in a coastal sediment: seasonal pattern, controlling factors and relations to the pelagicâ€“benthic coupling. Marine Biology Research, 2008, 4, 165-179.	0.3	34
115	Biogeochemical responses to mass coral spawning at the Great Barrier Reef: Effects on respiration and primary production. Limnology and Oceanography, 2008, 53, 1014-1024.	1.6	83
116	Mass coral spawning: A natural largeâ€scale nutrient addition experiment. Limnology and Oceanography, 2008, 53, 997-1013.	1.6	79
117	Effect of the diffusive boundary layer on benthic mineralization and O₂ distribution: A theoretical model analysis. Limnology and Oceanography, 2007, 52, 547-557.	1.6	58
118	Benthic solute exchange and carbon mineralization in two shallow subtidal sandy sediments: Effect of advective poreâ€water exchange. Limnology and Oceanography, 2007, 52, 1943-1963.	1.6	125
119	Oxygen dynamics around buried lesser sandeels Ammodytes tobianus(Linnaeus 1785): mode of ventilation and oxygen requirements. Journal of Experimental Biology, 2007, 210, 1006-1014.	0.8	42
120	Inorganic carbon transport during sea ice growth and decay: A carbon pump in polar seas. Journal of Geophysical Research, 2007, 112, .	3.3	199
121	Fine scale remobilisation of Fe, Mn, Co, Ni, Cu and Cd in contaminated marine sediment. Marine Chemistry, 2007, 106, 192-207.	0.9	91
122	Viral activity along a trophic gradient in continental margin sediments off central Chile. Marine Biology Research, 2006, 2, 41-51.	0.3	41
123	Spatial distribution and activity of viruses in the deep-sea sediments of Sagami Bay, Japan. Deep-Sea Research Part I: Oceanographic Research Papers, 2006, 53, 1-13.	0.6	52
124	Time-resolved pH imaging in marine sediments with a luminescent planar optode. Limnology and Oceanography: Methods, 2006, 4, 336-345.	1.0	79
125	Oxygen dynamics in the rhizosphere of Zostera marina: A two-dimensional planar optode study. Limnology and Oceanography, 2006, 51, 1072-1083.	1.6	194
126	Quantification of denitrification in permeable sediments: Insights from a twoâ€dimensional simulation analysis and experimental data. Limnology and Oceanography: Methods, 2006, 4, 294-307.	1.0	77

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127	Linking <I>Arenicola marina</I> irrigation behavior to oxygen transport and dynamics in sandy sediments. Journal of Marine Research, 2006, 64, 915-938.	0.3	49
128	Platinum octaetylporphyrin based planar optodes combined with an UV-LED excitation light source: An ideal tool for high-resolution O2 imaging in O2 depleted environments. Marine Chemistry, 2006, 100, 95-107.	0.9	55
129	Fabrication and test of solâ€“gel based planar oxygen optodes for use in aquatic sediments. Marine Chemistry, 2005, 97, 262-276.	0.9	43
130	Distribution of oxygen in surface sediments from central Sagami Bay, Japan: In situ measurements by microelectrodes and planar optodes. Deep-Sea Research Part I: Oceanographic Research Papers, 2005, 52, 1974-1987.	0.6	71
131	Denitrification and anammox activity in Arctic marine sediments. Limnology and Oceanography, 2004, 49, 1493-1502.	1.6	283
132	A conspicuous H2S-oxidizing microbial mat from a high-latitude Arctic fjord (Young Sound, NE) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 54	0.7	17
133	Smallâ€scale spatial and temporal variability in coastal benthic O₂ dynamics: Effects of fauna activity. Limnology and Oceanography, 2004, 49, 1471-1481.	1.6	186
134	Virus and bacteria dynamics of a coastal sediment: Implication for benthic carbon cycling. Limnology and Oceanography, 2004, 49, 2073-2081.	1.6	79
135	Anaerobic N₂ production in Arctic sea ice. Limnology and Oceanography, 2004, 49, 86-94.	1.6	169
136	Impacts of longline mussel farming on oxygen and nitrogen dynamics and biological communities of coastal sediments. Aquaculture, 2003, 218, 567-588.	1.7	174
137	Distribution of viruses and bacteria in relation to diagenetic activity in an estuarine sediment. Limnology and Oceanography, 2003, 48, 1447-1456.	1.6	76
138	Seasonal dynamics of benthic O₂ uptake in a semienclosed bay: Importance of diffusion and faunal activity. Limnology and Oceanography, 2003, 48, 1265-1276.	1.6	133
139	Benthic carbon mineralization in the Atlantic: a synthesis based on in situ data from the last decade. Deep-Sea Research Part I: Oceanographic Research Papers, 2002, 49, 1255-1279.	0.6	159
140	Exchange and Microdistribution of Solutes at the Benthic Interface: An In Situ Study in Aarhus Bight, Denmark. ACS Symposium Series, 2002, , 144-161.	0.5	1
141	Flow-induced flushing of relict tube structures in the central Skagerrak (Norway). Marine Biology, 2002, 141, 939-945.	0.7	27
142	PRIMARY PRODUCTION OF CRUSTOSE CORALLINE RED ALGAE IN A HIGH ARCTIC FJORD1. Journal of Phycology, 2002, 38, 273-283.	1.0	68
143	An in situ instrument for planar O₂ optode measurements at benthic interfaces. Limnology and Oceanography, 2001, 46, 2073-2080.	1.6	109
144	In situ microsensor studies of a shallow water hydrothermal vent at Milos, Greece. Marine Chemistry, 2000, 69, 43-54.	0.9	87

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145	Benthic primary production and O₂-CO₂dynamics in a shallow-water sediment: Spatial and temporal heterogeneity. Ophelia, 2000, 53, 159-171.	0.3	78
146	HETEROGENEITY OF OXYGEN PRODUCTION AND CONSUMPTION IN A PHOTOSYNTHETIC MICROBIAL MAT AS STUDIED BY PLANAR OPTODES. Journal of Phycology, 1999, 35, 270-279.	1.0	96
147	Adaptation, test and in situ measurements with O2 microopt(r)odes on benthic landers. Deep-Sea Research Part I: Oceanographic Research Papers, 1999, 46, 171-183.	0.6	41
148	Veil architecture in a sulphide-oxidizing bacterium enhances countercurrent flux. Nature, 1998, 394, 367-369.	13.7	60
149	A METHOD TO IMPROVE THE SPATIAL RESOLUTION OF PHOTOSYNTHETIC RATES OBTAINED BY OXYGEN MICROSENSORS. Journal of Phycology, 1998, 34, 89-93.	1.0	25
150	A benthic lander for tracer studies in the sea bed: in situ measurements of sulfate reduction. Continental Shelf Research, 1998, 18, 1581-1594.	0.9	17
151	Predicting the signal of O² microsensors from physical dimensions, temperature, salinity, and O² concentration. Limnology and Oceanography, 1998, 43, 1932-1937.	1.6	87
152	A microoptode array for fine-scale measurement of oxygen distribution. Sensors and Actuators B: Chemical, 1997, 38, 122-129.	4.0	81
153	MICROENVIRONMENTAL CONTROL OF PHOTOSYNTHESIS AND PHOTOSYNTHESIS-COUPLED RESPIRATION IN AN EPILITHIC CYANOBACTERIAL BIOFILM1. Journal of Phycology, 1996, 32, 799-812.	1.0	194
154	Concentration and transport of nitrate by the mat-forming sulphur bacterium Thioploca. Nature, 1995, 374, 713-715.	13.7	410
155	Calibration and performance of the stirred flux chamber from the benthic lander Elinor. Deep-Sea Research Part I: Oceanographic Research Papers, 1995, 42, 1029-1042.	0.6	61
156	Diffusivity in surficial sediments and benthic mats determined by use of a combined N2O-O2 microsensor. Geochimica Et Cosmochimica Acta, 1995, 59, 231-237.	1.6	44
157	Diffusive and total oxygen uptake of deep-sea sediments in the eastern South Atlantic Ocean:in situ and laboratory measurements. Deep-Sea Research Part I: Oceanographic Research Papers, 1994, 41, 1767-1788.	0.6	258
158	Manganese oxidation and in situ manganese fluxes from a coastal sediment. Geochimica Et Cosmochimica Acta, 1994, 58, 2563-2570.	1.6	128
159	Effects on the benthic diffusive boundary layer imposed by microelectrodes. Limnology and Oceanography, 1994, 39, 462-467.	1.6	106
160	PHOTOSYNTHESIS AND PHOTOSYNTHESIS-COUPLED RESPIRATION IN NATURAL BIOFILMS QUANTIFIED WITH OXYGEN MICROSENSORS1. Journal of Phycology, 1992, 28, 51-60.	1.0	125
161	Methods to Assess High-Resolution Subsurface Gas Concentrations and Gas Fluxes in Wetland Ecosystems. Soil Science Society of America Book Series, 0, , 949-970.	0.3	2