

Ronnie N Glud

List of Publications by Year in descending order

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Version: 2024-02-01

161
papers

10,349
citations

30551

56
h-index

46524

93
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169
all docs

169
docs citations

169
times ranked

8736
citing authors

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

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19	Hadal trenches are dynamic hotspots for early diagenesis in the deep sea. <i>Communications Earth & Environment</i> , 2021, 2, .	2.6	49
20	Spatial and temporal anoxia in single-ostium <i>Halichondria panicea</i> demosponge explants studied with planar optodes. <i>Marine Biology</i> , 2021, 168, 1.	0.7	9
21	Anammox bacteria drive fixed nitrogen loss in hadal trench sediments. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	20
22	Estimating Respiration Rates and Secondary Production of Macrobenthic Communities Across Coastal Habitats with Contrasting Structural Biodiversity. <i>Ecosystems</i> , 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. <i>Limnology and Oceanography</i> , 2020, 65, 77-95.	1.6	17
24	Glycerol dialkyl glycerol tetraethers in surface sediments from three Pacific trenches: Distribution, source and environmental implications. <i>Organic Geochemistry</i> , 2020, 147, 104079.	0.9	18
25	Pore water conditions driving calcium carbonate dissolution in reef sands. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 279, 16-28.	1.6	11
26	Meiofauna improve oxygenation and accelerate sulfide removal in the seasonally hypoxic seabed. <i>Marine Environmental Research</i> , 2020, 159, 104968.	1.1	20
27	Technical note: Estimating light-use efficiency of benthic habitats using underwater O ₂ and eddy covariance. <i>Biogeosciences</i> , 2020, 17, 4343-4353.	1.3	4
28	New Training to Meet the Global Phosphorus Challenge. <i>Environmental Science & Technology</i> , 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). <i>Polar Biology</i> , 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. <i>Frontiers in Marine Science</i> , 2019, 6, .	1.2	28
31	Seasonal metabolism and carbon export potential of a key coastal habitat: The perennial canopy-forming macroalga <i>Fucus vesiculosus</i> . <i>Limnology and Oceanography</i> , 2019, 64, 149-164.	1.6	46
32	Seasonal ecosystem metabolism across shallow benthic habitats measured by aquatic eddy covariance. <i>Limnology and Oceanography Letters</i> , 2019, 4, 79-86.	1.6	55
33	Depression chains in seafloor of contrasting morphology, Atacama Trench margin: a comment on Marsh <i>et al.</i> (2018). <i>Royal Society Open Science</i> , 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. <i>PLoS ONE</i> , 2019, 14, e0211673.	1.1	21
35	Cable bacteria promote DNRA through iron sulfide dissolution. <i>Limnology and Oceanography</i> , 2019, 64, 1228-1238.	1.6	38
36	Spatial heterogeneity and short-term oxygen dynamics in the rhizosphere of <i>Vallisneria spiralis</i> : Implications for nutrient cycling. <i>Freshwater Biology</i> , 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. <i>Geophysical Research Letters</i> , 2018, 45, 2752-2760.	1.5	54
38	Deposition and benthic mineralization of organic carbon: A seasonal study from Faroe Islands. <i>Journal of Marine Systems</i> , 2018, 177, 53-61.	0.9	3
39	Effect of settled diatom aggregates on benthic nitrogen cycling. <i>Limnology and Oceanography</i> , 2018, 63, 431-444.	1.6	11
40	Headwater gas exchange quantified from O ₂ mass balances at the reach scale. <i>Limnology and Oceanography: Methods</i> , 2018, 16, 696-709.	1.0	6
41	Oxygen fluxes beneath Arctic land-fast ice and pack ice: towards estimates of ice productivity. <i>Polar Biology</i> , 2018, 41, 2119-2134.	0.5	10
42	Freshwater copepod carcasses as pelagic microsites of dissimilatory nitrate reduction to ammonium. <i>FEMS Microbiology Ecology</i> , 2018, 94, .	1.3	7
43	Modelling Marine Sediment Biogeochemistry: Current Knowledge Gaps, Challenges, and Some Methodological Advice for Advancement. <i>Frontiers in Marine Science</i> , 2018, 5, .	1.2	36
44	N ₂ production rates limited by nitrite availability in the Bay of Bengal oxygen minimum zone. <i>Nature Geoscience</i> , 2017, 10, 24-29.	5.4	180
45	Nutrient availability limits biological production in Arctic sea ice melt ponds. <i>Polar Biology</i> , 2017, 40, 1593-1606.	0.5	12
46	A mesocosm study of oxygen and trace metal dynamics in sediment microniches of reactive organic material. <i>Scientific Reports</i> , 2017, 7, 11369.	1.6	15
47	Effects of cattle slurry and nitrification inhibitor application on spatial soil O ₂ dynamics and N ₂ O production pathways. <i>Soil Biology and Biochemistry</i> , 2017, 114, 200-209.	4.2	42
48	Reach-scale river metabolism across contrasting subcatchment geologies: Effect of light and hydrology. <i>Limnology and Oceanography</i> , 2017, 62, S381-S399.	1.6	22
49	A synthesis of the arctic terrestrial and marine carbon cycles under pressure from a dwindling cryosphere. <i>Ambio</i> , 2017, 46, 53-69.	2.8	56
50	Metabolism in anoxic permeable sediments is dominated by eukaryotic dark fermentation. <i>Nature Geoscience</i> , 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). <i>Frontiers in Marine Science</i> , 2017, 4, .	1.2	26
52	Anaerobic Nitrogen Turnover by Sinking Diatom Aggregates at Varying Ambient Oxygen Levels. <i>Frontiers in Microbiology</i> , 2016, 7, 98.	1.5	55
53	Intracellular Nitrate of Marine Diatoms as a Driver of Anaerobic Nitrogen Cycling in Sinking Aggregates. <i>Frontiers in Microbiology</i> , 2016, 7, 1669.	1.5	28
54	In situ quantification of ultra-low O ₂ concentrations in oxygen minimum zones: Application of novel optodes. <i>Limnology and Oceanography: Methods</i> , 2016, 14, 784-800.	1.0	28

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55	The transformation and fate of sub-Arctic microphytobenthos carbon revealed through ¹³ C-labeling. <i>Limnology and Oceanography</i> , 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. <i>Environmental Science & Technology</i> , 2016, 50, 11602-11609.	4.6	48
57	Benthic Carbon Mineralization and Nutrient Turnover in a Scottish Sea Loch: An Integrative In Situ Study. <i>Aquatic Geochemistry</i> , 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. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2016, 116, 264-275.	0.6	52
59	Copepod carcasses as microbial hot spots for pelagic denitrification. <i>Limnology and Oceanography</i> , 2015, 60, 2026-2036.	1.6	47
60	LUMOS - A Sensitive and Reliable Optode System for Measuring Dissolved Oxygen in the Nanomolar Range. <i>PLoS ONE</i> , 2015, 10, e0128125.	1.1	45
61	Phytoplankton Productivity in an Arctic Fjord (West Greenland): Estimating Electron Requirements for Carbon Fixation and Oxygen Production. <i>PLoS ONE</i> , 2015, 10, e0133275.	1.1	22
62	O ₂ dynamics in the rhizosphere of young rice plants (<i>Oryza sativa</i> L.) as studied by planar optodes. <i>Plant and Soil</i> , 2015, 390, 279-292.	1.8	65
63	An Assessment of the Precision and Confidence of Aquatic Eddy Correlation Measurements. <i>Journal of Atmospheric and Oceanic Technology</i> , 2015, 32, 642-655.	0.5	35
64	Heterogeneity of O ₂ dynamics in soil amended with animal manure and implications for greenhouse gas emissions. <i>Soil Biology and Biochemistry</i> , 2015, 84, 96-106.	4.2	59
65	Two decades of chemical imaging of solutes in sediments and soils – a review. <i>Analytica Chimica Acta</i> , 2015, 878, 9-42.	2.6	156
66	Light indirectly mediates bivalve habitat modification and impacts on seagrass. <i>Journal of Experimental Marine Biology and Ecology</i> , 2015, 472, 41-53.	0.7	14
67	A new large egg type from the marine live feed calanoid copepod <i>Acartia tonsa</i> (Dana) – Perspectives for selective breeding of designer feed for hatcheries. <i>Aquaculture</i> , 2015, 436, 114-120.	1.7	14
68	Aquatic Eddy Correlation: Quantifying the Artificial Flux Caused by Stirring-Sensitive O ₂ Sensors. <i>PLoS ONE</i> , 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. <i>Journal of Environmental Quality</i> , 2014, 43, 1809-1812.	1.0	23
70	Parameterization of atmosphere-surface exchange of CO ₂ over sea ice. <i>Cryosphere</i> , 2014, 8, 853-866.	1.5	18
71	Effects of temperature and irradiance on a benthic microalgal community: A combined two-dimensional oxygen and fluorescence imaging approach. <i>Limnology and Oceanography</i> , 2014, 59, 1599-1611.	1.6	19
72	Anoxic microniches in marine sediments induced by aggregate settlement: biogeochemical dynamics and implications. <i>Biogeochemistry</i> , 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. <i>Environmental Science & Technology</i> , 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. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 133, 156-167.	1.6	29
76	Quantifying tidally driven benthic oxygen exchange across permeable sediments: An aquatic eddy correlation study. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 6918-6932.	1.0	57
77	Biological- and physical-induced oxygen dynamics in melting sea ice of the Fram Strait. <i>Limnology and Oceanography</i> , 2014, 59, 1097-1111.	1.6	28
78	Seasonal rates of benthic primary production in a Greenland fjord measured by aquatic eddy correlation. <i>Limnology and Oceanography</i> , 2014, 59, 1555-1569.	1.6	61
79	Composition, Buoyancy Regulation and Fate of Ice Algal Aggregates in the Central Arctic Ocean. <i>PLoS ONE</i> , 2014, 9, e107452.	1.1	101
80	Benthic mineralization and solute exchange on a Celtic Sea sand-bank (Jones Bank). <i>Progress in Oceanography</i> , 2013, 117, 64-75.	1.5	8
81	The relative contributions of biological and abiotic processes to carbon dynamics in subarctic sea ice. <i>Polar Biology</i> , 2013, 36, 1761-1777.	0.5	34
82	High rates of microbial carbon turnover in sediments in the deepest oceanic trench on Earth. <i>Nature Geoscience</i> , 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. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 1157-1169.	1.0	55
84	The kinetics of denitrification in permeable sediments. <i>Biogeochemistry</i> , 2013, 113, 563-572.	1.7	40
85	Transport Zonation Limits Coupled Nitrification-Denitrification in Permeable Sediments. <i>Environmental Science & Technology</i> , 2013, 47, 13404-13411.	4.6	65
86	lkaite crystal distribution in winter sea ice and implications for CO<sub>2</sub> system dynamics. <i>Cryosphere</i> , 2013, 7, 707-718.	1.5	79
87	Hadal disturbance in the Japan Trench induced by the 2011 Tohokuâ€œOki Earthquake. <i>Scientific Reports</i> , 2013, 3, 1915.	1.6	131
88	An Optode Sensor Array for Long-Term In Situ Oxygen Measurements in Soil and Sediment. <i>Journal of Environmental Quality</i> , 2013, 42, 1267-1273.	1.0	21
89	lkaite crystals in melting sea ice â€œ implications for <i>p</i>CO<sub>2</sub> and pH levels in Arctic surface waters. <i>Cryosphere</i> , 2012, 6, 901-908.	1.5	91
90	A combined sensor for simultaneous high resolution 2â€œD imaging of oxygen and trace metals fluxes. <i>Limnology and Oceanography: Methods</i> , 2012, 10, 389-401.	1.0	42

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91	Quantifying denitrification in rippled permeable sands through combined flume experiments and modeling. <i>Limnology and Oceanography</i> , 2012, 57, 1217-1232.	1.6	77
92	Influence of porewater advection on denitrification in carbonate sands: Evidence from repacked sediment column experiments. <i>Geochimica Et Cosmochimica Acta</i> , 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. <i>Limnology and Oceanography</i> , 2012, 57, 1732-1742.	1.6	18
94	Oxygen exchange and ice melt measured at the ice-water interface by eddy correlation. <i>Biogeosciences</i> , 2012, 9, 1957-1967.	1.3	34
95	Linking Soil O ₂ , CO ₂ , and CH ₄ Concentrations in a Wetland Soil: Implications for CO ₂ and CH ₄ Fluxes. <i>Environmental Science & Technology</i> , 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. <i>Geophysical Research Letters</i> , 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. <i>Limnology and Oceanography: Methods</i> , 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.. <i>Limnology and Oceanography: Methods</i> , 2011, 9, 348-360.	1.0	180
99	Copepod guts as biogeochemical hotspots in the sea: Evidence from microelectrode profiling of <i>Calanus</i> spp. <i>Limnology and Oceanography</i> , 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. <i>Polar Biology</i> , 2011, 34, 1157-1165.	0.5	29
101	Simple, robust eddy correlation amplifier for aquatic dissolved oxygen and hydrogen sulfide flux measurements. <i>Limnology and Oceanography: Methods</i> , 2011, 9, 340-347.	1.0	50
102	Oxygen penetration around burrows and roots in aquatic sediments. <i>Journal of Marine Research</i> , 2010, 68, 309-336.	0.3	32
103	Soil heterogeneity effects on O ₂ distribution and CH ₄ emissions from wetlands: In situ and mesocosm studies with planar O ₂ optodes and membrane inlet mass spectrometry. <i>Soil Biology and Biochemistry</i> , 2010, 42, 2254-2265.	4.2	52
104	Degradation of mussel (<i>Mytilus edulis</i>) fecal pellets released from hanging long-lines upon sinking and after settling at the sediment. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2010, 67, 1376-1387.	0.7	46
105	In situ microscale variation in distribution and consumption of O ₂ : A case study from a deep ocean margin sediment (Sagami Bay, Japan). <i>Limnology and Oceanography</i> , 2009, 54, 1-12.	1.6	62
106	Nitrogen cycling in a deep ocean margin sediment (Sagami Bay, Japan). <i>Limnology and Oceanography</i> , 2009, 54, 723-734.	1.6	94
107	Increased CO ₂ uptake due to sea ice growth and decay in the Nordic Seas. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	86
108	Benthic microalgal production in the Arctic: applied methods and status of the current database. <i>Botanica Marina</i> , 2009, 52, 559-571.	0.6	82

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109	Eddy correlation measurements of oxygen uptake in deep ocean sediments. <i>Limnology and Oceanography: Methods</i> , 2009, 7, 576-584.	1.0	81
110	Biosensor for laboratory and lander-based analysis of benthic nitrate plus nitrite distribution in marine environments. <i>Limnology and Oceanography: Methods</i> , 2009, 7, 761-770.	1.0	15
111	Denitrification activity and oxygen dynamics in Arctic sea ice. <i>Polar Biology</i> , 2008, 31, 527-537.	0.5	95
112	TEMPERATURE EFFECTS ON MICROALGAL PHOTOSYNTHESIS-LIGHT RESPONSES MEASURED BY O_2 PRODUCTION, PULSE-AMPLITUDE-MODULATED FLUORESCENCE, AND ^{14}C ASSIMILATION. <i>Journal of Phycology</i> , 2008, 44, 501-514.	1.0	58
113	Oxygen dynamics of marine sediments. <i>Marine Biology Research</i> , 2008, 4, 243-289.	0.3	684
114	Viral dynamics in a coastal sediment: seasonal pattern, controlling factors and relations to the pelagic-benthic coupling. <i>Marine Biology Research</i> , 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. <i>Limnology and Oceanography</i> , 2008, 53, 1014-1024.	1.6	83
116	Mass coral spawning: A natural large-scale nutrient addition experiment. <i>Limnology and Oceanography</i> , 2008, 53, 997-1013.	1.6	79
117	Effect of the diffusive boundary layer on benthic mineralization and O_2 distribution: A theoretical model analysis. <i>Limnology and Oceanography</i> , 2007, 52, 547-557.	1.6	58
118	Benthic solute exchange and carbon mineralization in two shallow subtidal sandy sediments: Effect of advective pore-water exchange. <i>Limnology and Oceanography</i> , 2007, 52, 1943-1963.	1.6	125
119	Oxygen dynamics around buried lesser sandeels <i>Ammodytes tobianus</i> (Linnaeus 1785): mode of ventilation and oxygen requirements. <i>Journal of Experimental Biology</i> , 2007, 210, 1006-1014.	0.8	42
120	Inorganic carbon transport during sea ice growth and decay: A carbon pump in polar seas. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	199
121	Fine scale remobilisation of Fe, Mn, Co, Ni, Cu and Cd in contaminated marine sediment. <i>Marine Chemistry</i> , 2007, 106, 192-207.	0.9	91
122	Viral activity along a trophic gradient in continental margin sediments off central Chile. <i>Marine Biology Research</i> , 2006, 2, 41-51.	0.3	41
123	Spatial distribution and activity of viruses in the deep-sea sediments of Sagami Bay, Japan. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2006, 53, 1-13.	0.6	52
124	Time-resolved pH imaging in marine sediments with a luminescent planar optode. <i>Limnology and Oceanography: Methods</i> , 2006, 4, 336-345.	1.0	79
125	Oxygen dynamics in the rhizosphere of <i>Zostera marina</i> : A two-dimensional planar optode study. <i>Limnology and Oceanography</i> , 2006, 51, 1072-1083.	1.6	194
126	Quantification of denitrification in permeable sediments: Insights from a two-dimensional simulation analysis and experimental data. <i>Limnology and Oceanography: Methods</i> , 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. <i>Journal of Marine Research</i> , 2006, 64, 915-938.	0.3	49
128	Platinum octaethylporphyrin based planar optodes combined with an UV-LED excitation light source: An ideal tool for high-resolution O ₂ imaging in O ₂ depleted environments. <i>Marine Chemistry</i> , 2006, 100, 95-107.	0.9	55
129	Fabrication and test of sol-gel based planar oxygen optodes for use in aquatic sediments. <i>Marine Chemistry</i> , 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. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2005, 52, 1974-1987.	0.6	71
131	Denitrification and anammox activity in Arctic marine sediments. <i>Limnology and Oceanography</i> , 2004, 49, 1493-1502.	1.6	283
132	A conspicuous H ₂ S-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	Small-scale spatial and temporal variability in coastal benthic O ₂ dynamics: Effects of fauna activity. <i>Limnology and Oceanography</i> , 2004, 49, 1471-1481.	1.6	186
134	Virus and bacteria dynamics of a coastal sediment: Implication for benthic carbon cycling. <i>Limnology and Oceanography</i> , 2004, 49, 2073-2081.	1.6	79
135	Anaerobic N ₂ production in Arctic sea ice. <i>Limnology and Oceanography</i> , 2004, 49, 86-94.	1.6	169
136	Impacts of longline mussel farming on oxygen and nitrogen dynamics and biological communities of coastal sediments. <i>Aquaculture</i> , 2003, 218, 567-588.	1.7	174
137	Distribution of viruses and bacteria in relation to diagenetic activity in an estuarine sediment. <i>Limnology and Oceanography</i> , 2003, 48, 1447-1456.	1.6	76
138	Seasonal dynamics of benthic O ₂ uptake in a semienclosed bay: Importance of diffusion and faunal activity. <i>Limnology and Oceanography</i> , 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. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 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. <i>ACS Symposium Series</i> , 2002, , 144-161.	0.5	1
141	Flow-induced flushing of relict tube structures in the central Skagerrak (Norway). <i>Marine Biology</i> , 2002, 141, 939-945.	0.7	27
142	PRIMARY PRODUCTION OF CRUSTOSE CORALLINE RED ALGAE IN A HIGH ARCTIC FJORD1. <i>Journal of Phycology</i> , 2002, 38, 273-283.	1.0	68
143	An in situ instrument for planar O ₂ optode measurements at benthic interfaces. <i>Limnology and Oceanography</i> , 2001, 46, 2073-2080.	1.6	109
144	In situ microsensor studies of a shallow water hydrothermal vent at Milos, Greece. <i>Marine Chemistry</i> , 2000, 69, 43-54.	0.9	87

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