

Niels Peter Revsbech

List of Publications by Year in descending order

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148
papers

17,161
citations

10389

72
h-index

14759

127
g-index

150
all docs

150
docs citations

150
times ranked

10905
citing authors

#	ARTICLE	IF	CITATIONS
1	An oxygen microsensor with a guard cathode. <i>Limnology and Oceanography</i> , 1989, 34, 474-478.	3.1	998
2	Microelectrodes: Their Use in Microbial Ecology. <i>Advances in Microbial Ecology</i> , 1986, , 293-352.	0.1	668
3	Diffusive boundary layers and the oxygen uptake of sediments and detritus ¹ . <i>Limnology and Oceanography</i> , 1985, 30, 111-122.	3.1	638
4	Direct Measurement of Oxygen Profiles and Denitrification Rates in Soil Aggregates. <i>Soil Science Society of America Journal</i> , 1985, 49, 645-651.	2.2	609
5	A Cryptic Sulfur Cycle in Oxygen-Minimum "Zone Waters off the Chilean Coast. <i>Science</i> , 2010, 330, 1375-1378.	12.6	545
6	Microelectrode studies of the photosynthesis and O ₂ , H ₂ S, and pH profiles of a microbial mat ¹ . <i>Limnology and Oceanography</i> , 1983, 28, 1062-1074.	3.1	429
7	Microbiology of flooded rice paddies. <i>FEMS Microbiology Reviews</i> , 2000, 24, 625-645.	8.6	420
8	Evidence for complete denitrification in a benthic foraminifer. <i>Nature</i> , 2006, 443, 93-96.	27.8	407
9	Distribution of oxygen in marine sediments measured with microelectrodes ¹ . <i>Limnology and Oceanography</i> , 1980, 25, 403-411.	3.1	332
10	Biomarkers for In Situ Detection of Anaerobic Ammonium-Oxidizing (Anammox) Bacteria. <i>Applied and Environmental Microbiology</i> , 2005, 71, 1677-1684.	3.1	325
11	Photosynthesis and structure of benthic microbial mats: Microelectrode and SEM studies of four cyanobacterial communities ¹ . <i>Limnology and Oceanography</i> , 1983, 28, 1075-1093.	3.1	299
12	Anaerobic processes in soil. <i>Plant and Soil</i> , 1984, 76, 197-212.	3.7	281
13	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
14	Adaptation to Hydrogen Sulfide of Oxygenic and Anoxygenic Photosynthesis among Cyanobacteria. <i>Applied and Environmental Microbiology</i> , 1986, 51, 398-407.	3.1	256
15	Photosynthesis of benthic microflora measured with high spatial resolution by the oxygen microprofile method: Capabilities and limitations of the method ¹ . <i>Limnology and Oceanography</i> , 1983, 28, 749-756.	3.1	254
16	Widespread occurrence of nitrate storage and denitrification among Foraminifera and <i>Gromiida</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 1148-1153.	7.1	253
17	Anammox and denitrification in the oxygen minimum zone of the eastern South Pacific. <i>Limnology and Oceanography</i> , 2012, 57, 1331-1346.	3.1	243
18	Denitrification in nitrate-rich streams: Diurnal and seasonal variation related to benthic oxygen metabolism. <i>Limnology and Oceanography</i> , 1990, 35, 640-651.	3.1	235

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19	A comparison of oxygen, nitrate, and sulfate respiration in coastal marine sediments. <i>Microbial Ecology</i> , 1979, 5, 105-115.	2.8	232
20	Oxygen Sensitivity of Anammox and Coupled N-Cycle Processes in Oxygen Minimum Zones. <i>PLoS ONE</i> , 2011, 6, e29299.	2.5	228
21	Determination of ultra-low oxygen concentrations in oxygen minimum zones by the STOX sensor. <i>Limnology and Oceanography: Methods</i> , 2009, 7, 371-381.	2.0	222
22	Oxygen at Nanomolar Levels Reversibly Suppresses Process Rates and Gene Expression in Anammox and Denitrification in the Oxygen Minimum Zone off Northern Chile. <i>MBio</i> , 2014, 5, e01966.	4.1	216
23	Investigation of an Iron-Oxidizing Microbial Mat Community Located near Aarhus, Denmark: Field Studies. <i>Applied and Environmental Microbiology</i> , 1994, 60, 4022-4031.	3.1	212
24	Growth Pattern and Yield of a Chemoautotrophic <i>Beggiatoa</i> sp. in Oxygen-Sulfide Microgradients. <i>Applied and Environmental Microbiology</i> , 1986, 52, 225-233.	3.1	209
25	Diurnal variation of denitrification and nitrification in sediments colonized by benthic microphytes. <i>Limnology and Oceanography</i> , 1994, 39, 573-579.	3.1	200
26	Intensive nitrogen loss over the Omani Shelf due to anammox coupled with dissimilatory nitrite reduction to ammonium. <i>ISME Journal</i> , 2011, 5, 1660-1670.	9.8	200
27	Primary production of microalgae in sediments measured by oxygen microprofile, $H^{14}CO_3$ fixation, and oxygen exchange methods. <i>Limnology and Oceanography</i> , 1981, 26, 717-730.	3.1	197
28	Ammonium and nitrite oxidation at nanomolar oxygen concentrations in oxygen minimum zone waters. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 10601-10606.	7.1	195
29	Widespread functional anoxia in the oxygen minimum zone of the Eastern South Pacific. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2012, 65, 36-45.	1.4	190
30	Oxygen Microelectrode That Is Insensitive to Medium Chemical Composition: Use in an Acid Microbial Mat Dominated by <i>Cyanidium caldarium</i> . <i>Applied and Environmental Microbiology</i> , 1983, 45, 755-759.	3.1	189
31	Aerobic growth at nanomolar oxygen concentrations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 18755-18760.	7.1	178
32	Nitrification and Denitrification in Lake and Estuarine Sediments Measured by the ^{15}N Dilution Technique and Isotope Pairing. <i>Applied and Environmental Microbiology</i> , 1993, 59, 2093-2098.	3.1	178
33	Effect of Temperature and Light on Growth of and Photosynthesis by <i>Synechococcus</i> Isolates Typical of Those Predominating in the Octopus Spring Microbial Mat Community of Yellowstone National Park. <i>Applied and Environmental Microbiology</i> , 2006, 72, 544-550.	3.1	176
34	Kinetics, diffusional limitation and microscale distribution of chemistry and organisms in a CANON reactor. <i>FEMS Microbiology Ecology</i> , 2005, 51, 247-256.	2.7	170
35	Microsensor analysis of oxygen and pH in the rice rhizosphere under field and laboratory conditions. <i>Biology and Fertility of Soils</i> , 1999, 29, 379-385.	4.3	160
36	Anaerobic ammonium oxidation by marine and freshwater planctomycete-like bacteria. <i>Applied Microbiology and Biotechnology</i> , 2003, 63, 107-114.	3.6	156

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37	Denitrification and oxygen respiration in biofilms studied with a microsensor for nitrous oxide and oxygen. <i>Microbial Ecology</i> , 1990, 19, 63-72.	2.8	155
38	Microscale Distribution of Nitrification Activity in Sediment Determined with a Shielded Microsensor for Nitrate. <i>Applied and Environmental Microbiology</i> , 1993, 59, 3287-3296.	3.1	150
39	Microzonation of Denitrification Activity in Stream Sediments as Studied with a Combined Oxygen and Nitrous Oxide Microsensor. <i>Applied and Environmental Microbiology</i> , 1989, 55, 1234-1241.	3.1	140
40	Denitrification, Dissimilatory Reduction of Nitrate to Ammonium, and Nitrification in a Bioturbated Estuarine Sediment as Measured with ¹⁵ N and Microsensor Techniques. <i>Applied and Environmental Microbiology</i> , 1992, 58, 303-313.	3.1	137
41	A Microscale NO ₃ -Biosensor for Environmental Applications. <i>Analytical Chemistry</i> , 1997, 69, 3527-3531.	6.5	136
42	Denitrification in Soil Aggregates Analyzed with Microsensors for Nitrous Oxide and Oxygen. <i>Soil Science Society of America Journal</i> , 1994, 58, 1691-1698.	2.2	135
43	Direct Evidence for Changes in the Resistance of Legume Root Nodules to O ₂ Diffusion. <i>Journal of Experimental Botany</i> , 1987, 38, 1129-1140.	4.8	134
44	Competition between Ammonia-Oxidizing Bacteria and Benthic Microalgae. <i>Applied and Environmental Microbiology</i> , 2004, 70, 5528-5537.	3.1	131
45	An oxygen insensitive microsensor for nitrous oxide. <i>Sensors and Actuators B: Chemical</i> , 2001, 81, 42-48.	7.8	128
46	Diel Pulses of O ₂ and CO ₂ in Sandy Lake Sediments Inhabited by <i>Lobelia Dortmanna</i> . <i>Ecology</i> , 1995, 76, 1536-1545.	3.2	127
47	PHOTOSYNTHESIS AND PHOTOSYNTHESIS-COUPLED RESPIRATION IN NATURAL BIOFILMS QUANTIFIED WITH OXYGEN MICROSENSORS ¹ . <i>Journal of Phycology</i> , 1992, 28, 51-60.	2.3	125
48	Oxygen distribution and aerobic respiration in the north and south eastern tropical Pacific oxygen minimum zones. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2014, 94, 173-183.	1.4	122
49	Investigation of an Iron-Oxidizing Microbial Mat Community Located near Aarhus, Denmark: Laboratory Studies. <i>Applied and Environmental Microbiology</i> , 1994, 60, 4032-4038.	3.1	122
50	Combined Oxygen and Nitrous Oxide Microsensor for Denitrification Studies. <i>Applied and Environmental Microbiology</i> , 1988, 54, 2245-2249.	3.1	121
51	Estimation of Nitrification and Denitrification from Microprofiles of Oxygen and Nitrate in Model Sediment Systems. <i>Applied and Environmental Microbiology</i> , 1994, 60, 2094-2100.	3.1	119
52	Denitrification and photosynthesis in stream sediment studied with microsensor and wholecore techniques. <i>Limnology and Oceanography</i> , 1990, 35, 1135-1144.	3.1	118
53	Denitrification, nitrate turnover, and aerobic respiration by benthic foraminiferans in the oxygen minimum zone off Chile. <i>Journal of Experimental Marine Biology and Ecology</i> , 2008, 359, 85-91.	1.5	117
54	Cryptic oxygen cycling in anoxic marine zones. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 8319-8324.	7.1	116

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55	Electric coupling between distant nitrate reduction and sulfide oxidation in marine sediment. <i>ISME Journal</i> , 2014, 8, 1682-1690.	9.8	115
56	Effects on the benthic diffusive boundary layer imposed by microelectrodes. <i>Limnology and Oceanography</i> , 1994, 39, 462-467.	3.1	106
57	Microbial community distribution and activity dynamics of granular biomass in a CANON reactor. <i>Water Research</i> , 2010, 44, 4359-4370.	11.3	101
58	Aerobic Microbial Respiration In Oceanic Oxygen Minimum Zones. <i>PLoS ONE</i> , 2015, 10, e0133526.	2.5	99
59	Transition from Anoxygenic to Oxygenic Photosynthesis in a <i>Microcoleus chthonoplastes</i> Cyanobacterial Mat. <i>Applied and Environmental Microbiology</i> , 1986, 51, 408-417.	3.1	98
60	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
61	Diffusion characteristics of microbial communities determined by use of oxygen microsensors. <i>Journal of Microbiological Methods</i> , 1989, 9, 111-122.	1.6	97
62	Nitrification–denitrification dynamics and community structure of ammonia oxidizing bacteria in a high yield irrigated Philippine rice field. <i>FEMS Microbiology Ecology</i> , 2004, 49, 359-369.	2.7	95
63	Nitrogen cycling in a deep ocean margin sediment (Sagami Bay, Japan). <i>Limnology and Oceanography</i> , 2009, 54, 723-734.	3.1	94
64	Improved nitrogen removal by application of new nitrogen-cycle bacteria. <i>Reviews in Environmental Science and Biotechnology</i> , 2002, 1, 51-63.	8.1	88
65	Extracellular DNA in adhesion and biofilm formation of four environmental isolates: a quantitative study. <i>FEMS Microbiology Ecology</i> , 2013, 86, 394-403.	2.7	86
66	Combined Microdiffusion–Hypobromite Oxidation Method for Determining Nitrogen-15 Isotope in Ammonium. <i>Soil Science Society of America Journal</i> , 1995, 59, 1077-1080.	2.2	85
67	Vertical partitioning of nitrogen loss processes across the oxic–anoxic interface of an oceanic oxygen minimum zone. <i>Environmental Microbiology</i> , 2014, 16, 3041-3054.	3.8	83
68	Intrarenal oxygen tension measured by a modified Clark electrode at normal and low blood pressure and after injection of x-ray contrast media. <i>Pflügers Archiv European Journal of Physiology</i> , 1997, 434, 705-711.	2.8	79
69	Experimental Incubations Elicit Profound Changes in Community Transcription in OMZ Bacterioplankton. <i>PLoS ONE</i> , 2012, 7, e37118.	2.5	79
70	Observations on microbial activity in acidified pig slurry. <i>Biosystems Engineering</i> , 2009, 102, 291-297.	4.3	77
71	Obligately phototrophic <i>Chloroflexus</i> : primary production in anaerobic hot spring microbial mats. <i>Archives of Microbiology</i> , 1987, 147, 80-87.	2.2	76
72	Metabolic preference of nitrate over oxygen as an electron acceptor in foraminifera from the Peruvian oxygen minimum zone. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 2860-2865.	7.1	73

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73	Physiology and behaviour of marine <i>Thioploca</i> . ISME Journal, 2009, 3, 647-657.	9.8	62
74	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.	1.4	61
75	Nitrogen transformations in microenvironments of river beds and riparian zones. Ecological Engineering, 2005, 24, 447-455.	3.6	61
76	Oxygen uptake, bacterial distribution, and carbon-nitrogen-sulfur cycling in sediments from the baltic sea - North sea transition. Ophelia, 1989, 31, 29-49.	0.3	60
77	Denitrification in a trickling filter biofilm studied by a microsensor for oxygen and nitrous oxide. Water Research, 1989, 23, 867-871.	11.3	59
78	A critical assessment of the occurrence and extend of oxygen contamination during anaerobic incubations utilizing commercially available vials. Journal of Microbiological Methods, 2012, 88, 147-154.	1.6	59
79	Bacterium-Based NO ₂ ⁻ Biosensor for Environmental Applications. Applied and Environmental Microbiology, 2004, 70, 6551-6558.	3.1	58
80	Analysis of Microbial Communities with Electrochemical Microsensors and Microscale Biosensors. Methods in Enzymology, 2005, 397, 147-166.	1.0	58
81	Oxygen microprofiles of trickling filter biofilms. Water Research, 1986, 20, 1589-1598.	11.3	55
82	Biofilm retention on surfaces with variable roughness and hydrophobicity. Biofouling, 2011, 27, 111-121.	2.2	52
83	Fast responding biosensor for on-line determination of nitrate/nitrite in activated sludge. Water Research, 2000, 34, 2463-2468.	11.3	50
84	Nitrification and Coupled Nitrification-Denitrification Associated with a Soil-Manure Interface. Soil Science Society of America Journal, 1996, 60, 1829-1840.	2.2	49
85	A novel microsensor for determination of apparent diffusivity in sediments. Limnology and Oceanography, 1998, 43, 986-992.	3.1	49
86	Distribution and Rate of Microbial Processes in an Ammonia-Loaded Air Filter Biofilm. Applied and Environmental Microbiology, 2009, 75, 3705-3713.	3.1	47
87	Nitrogen transformations in stratified aquatic microbial ecosystems. Antonie Van Leeuwenhoek, 2006, 90, 361-375.	1.7	46
88	Effects of Bacterial Community Members on the Proteome of the Ammonia-Oxidizing Bacterium Nitrosomonas sp. Strain Is79. Applied and Environmental Microbiology, 2016, 82, 4776-4788.	3.1	45
89	Diffusivity in surficial sediments and benthic mats determined by use of a combined N ₂ O-O ₂ microsensor. Geochimica Et Cosmochimica Acta, 1995, 59, 231-237.	3.9	44
90	Use of an Oxygen-Insensitive Microscale Biosensor for Methane To Measure Methane Concentration Profiles in a Rice Paddy. Applied and Environmental Microbiology, 1998, 64, 864-870.	3.1	44

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91	A sensitive assay for determination of $^{14}\text{N}/^{15}\text{N}$ isotope distribution in NO_3^- . <i>Journal of Microbiological Methods</i> , 1993, 17, 155-164.	1.6	43
92	Photosynthesis and respiration of a diatom biofilm cultured in a new gradient growth chamber. <i>FEMS Microbiology Letters</i> , 1989, 62, 29-38.	1.8	42
93	Methane microprofiles in a sewage biofilm determined with a microscale biosensor. <i>Water Research</i> , 2001, 35, 1379-1386.	11.3	41
94	Regulating factors of denitrification in trickling filter biofilms as measured with the oxygen/nitrous oxide microsensor. <i>FEMS Microbiology Ecology</i> , 1992, 10, 151-164.	2.7	39
95	Photosynthesis and light adaptation in epiphyte-macrophyte associations measured by oxygen microelectrodes. <i>Limnology and Oceanography</i> , 1987, 32, 452-457.	3.1	38
96	Regulation of ammonia oxidation in biotrickling airfilters with high ammonium load. <i>Chemical Engineering Journal</i> , 2011, 167, 198-205.	12.7	36
97	Entrapment of Subtilisin in Ceramic Sol-Gel Coating for Antifouling Applications. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 5915-5921.	8.0	36
98	Biogas upgrading with hydrogenotrophic methanogenic biofilms. <i>Bioresource Technology</i> , 2019, 287, 121422.	9.6	33
99	Title is missing!. <i>Hydrobiologia</i> , 1997, 350, 1-11.	2.0	32
100	Nitrification, denitrification, and N-liberation associated with two types of organic hot-spots in soil. <i>Soil Biology and Biochemistry</i> , 1998, 30, 611-619.	8.8	31
101	Microscale Biosensor for Measurement of Volatile Fatty Acids in Anoxic Environments. <i>Applied and Environmental Microbiology</i> , 2002, 68, 1204-1210.	3.1	31
102	Construction of STOX Oxygen Sensors and Their Application for Determination of O_2 Concentrations in Oxygen Minimum Zones. <i>Methods in Enzymology</i> , 2011, 486, 325-341.	1.0	30
103	Extreme Emission of N_2O from Tropical Wetland Soil (Pantanal, South America). <i>Frontiers in Microbiology</i> , 2012, 3, 433.	3.5	29
104	Experimental determination of pyrite and molybdenite oxidation kinetics at nanomolar oxygen concentrations. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 249, 160-172.	3.9	28
105	Aquatic Respiration Rate Measurements at Low Oxygen Concentrations. <i>PLoS ONE</i> , 2014, 9, e89369.	2.5	28
106	Nitrification, denitrification and growth in artificial <i>Thiosphaera pantotropha</i> biofilms as measured with a combined microsensor for oxygen and nitrous oxide. <i>FEMS Microbiology Ecology</i> , 1995, 17, 137-148.	2.7	26
107	Nitrification and Denitrification near a Soil-Manure Interface Studied with a Nitrate-Nitrite Biosensor. <i>Soil Science Society of America Journal</i> , 2002, 66, 498-506.	2.2	26
108	Photosynthetic Potential and Light-Dependent Oxygen Consumption in a Benthic Cyanobacterial Mat. <i>Applied and Environmental Microbiology</i> , 1988, 54, 176-182.	3.1	26

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109	Regulating factors of denitrification in trickling filter biofilms as measured with the oxygen/nitrous oxide microsensors. <i>FEMS Microbiology Letters</i> , 1992, 101, 151-164.	1.8	25
110	A METHOD TO IMPROVE THE SPATIAL RESOLUTION OF PHOTOSYNTHETIC RATES OBTAINED BY OXYGEN MICROSENSORS. <i>Journal of Phycology</i> , 1998, 34, 89-93.	2.3	25
111	Microsensors in plant biology: in vivo visualization of inorganic analytes with high spatial and/or temporal resolution. <i>Journal of Experimental Botany</i> , 2020, 71, 3941-3954.	4.8	24
112	Microscale biosensors for environmental monitoring. <i>TrAC - Trends in Analytical Chemistry</i> , 1995, 14, 300-303.	11.4	23
113	A New Highly Sensitive Method to Assess Respiration Rates and Kinetics of Natural Planktonic Communities by Use of the Switchable Trace Oxygen Sensor and Reduced Oxygen Concentrations. <i>PLoS ONE</i> , 2014, 9, e105399.	2.5	23
114	Strong leaf surface basification and CO ₂ limitation of seagrass induced by epiphytic biofilm microenvironments. <i>Plant, Cell and Environment</i> , 2020, 43, 174-187.	5.7	23
115	Diffusion Chamber for Nitrogen-15 Determination of Coupled Nitrification-Denitrification around Soil-Manure Interfaces. <i>Soil Science Society of America Journal</i> , 1994, 58, 795-800.	2.2	21
116	Respiratory Kinetics of Marine Bacteria Exposed to Decreasing Oxygen Concentrations. <i>Applied and Environmental Microbiology</i> , 2016, 82, 1412-1422.	3.1	21
117	<i>In Situ</i> Hydrogen Dynamics in a Hot Spring Microbial Mat during a Diel Cycle. <i>Applied and Environmental Microbiology</i> , 2016, 82, 4209-4217.	3.1	20
118	Amperometric microsensor for measurement of gaseous and dissolved CO ₂ . <i>Sensors and Actuators B: Chemical</i> , 2019, 283, 349-354.	7.8	20
119	Hot moments of N ₂ O transformation and emission in tropical soils from the Pantanal and the Amazon (Brazil). <i>Soil Biology and Biochemistry</i> , 2014, 75, 26-36.	8.8	18
120	Fluorescence in situ hybridization (FISH) detection of nitrite reductase transcripts (nirS mRNA) in <i>Pseudomonas stutzeri</i> biofilms relative to a microscale oxygen gradient. <i>Systematic and Applied Microbiology</i> , 2012, 35, 513-517.	2.8	17
121	Root O ₂ consumption, CO ₂ production and tissue concentration profiles in chickpea, as influenced by environmental hypoxia. <i>New Phytologist</i> , 2020, 226, 373-384.	7.3	17
122	Urea Biosensor Based on a CO ₂ Microsensor. <i>ACS Omega</i> , 2020, 5, 27582-27590.	3.5	17
123	An NH ₄ ⁺ biosensor based on ammonia-oxidizing bacteria for use under anoxic conditions. <i>Sensors and Actuators B: Chemical</i> , 2005, 105, 412-418.	7.8	16
124	Hydrogen microsensors with hydrogen sulfide traps. <i>Sensors and Actuators B: Chemical</i> , 2015, 215, 1-8.	7.8	16
125	Combined Use of the Acetylene Inhibition Technique and Microsensors for Quantification of Denitrification in Sediments and Biofilms. , 1990, , 259-275.		16
126	Analysis of microbial mats by use of electrochemical microsensors: Recent advances. , 1994, , 135-147.		16

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127	Biosensor for laboratory and field-based analysis of benthic nitrate plus nitrite distribution in marine environments. <i>Limnology and Oceanography: Methods</i> , 2009, 7, 761-770.	2.0	15
128	Ion Selective Amperometric Biosensors for Environmental Analysis of Nitrate, Nitrite and Sulfate. <i>Sensors</i> , 2020, 20, 4326.	3.8	15
129	The MILAN Campaign: Studying Diel Light Effects on the Air-Sea Interface. <i>Bulletin of the American Meteorological Society</i> , 2020, 101, E146-E166.	3.3	14
130	Simple sensors that work in diverse natural environments: The micro-Clark sensor and biosensor family. <i>Sensors and Actuators B: Chemical</i> , 2021, 329, 129168.	7.8	14
131	Fast Responding Amperometric CO ₂ Microsensor with Ionic Liquid-based Aprotic Solvent Electrolytes. <i>ACS Sensors</i> , 2020, 5, 2604-2610.	7.8	13
132	EFFECT OF WATER VELOCITY AND BENTHIC DIATOM MORPHOLOGY ON THE WATER CHEMISTRY EXPERIENCED BY POSTLARVAL ABALONE. <i>Journal of Shellfish Research</i> , 2007, 26, 745-750.	0.9	12
133	Microsensor for in situ flow measurements in benthic boundary layers at submillimeter resolution with extremely slow flow. <i>Limnology and Oceanography: Methods</i> , 2007, 5, 185-191.	2.0	12
134	Detection and persistence of fecal Bacteroidales as water quality indicators in unchlorinated drinking water. <i>Systematic and Applied Microbiology</i> , 2009, 32, 362-370.	2.8	12
135	Gene expression of terminal oxidases in two marine bacterial strains exposed to nanomolar oxygen concentrations. <i>FEMS Microbiology Ecology</i> , 2018, 94, .	2.7	12
136	Microaerobic Lifestyle at Nanomolar O ₂ Concentrations Mediated by Low-Affinity Terminal Oxidases in Abundant Soil Bacteria. <i>MSystems</i> , 2021, 6, e0025021.	3.8	12
137	Nitrification and Denitrification near a Soil-Manure Interface Studied with a Nitrate-Nitrite Biosensor. <i>Soil Science Society of America Journal</i> , 2002, 66, 498.	2.2	11
138	Total Dissolved Inorganic Carbon Sensor Based on Amperometric CO ₂ Microsensor and Local Acidification. <i>ACS Sensors</i> , 2021, 6, 2529-2533.	7.8	10
139	Amperometric sensor for nanomolar nitrous oxide analysis. <i>Analytica Chimica Acta</i> , 2020, 1101, 135-140.	5.4	9
140	Microbiology of flooded rice paddies. <i>FEMS Microbiology Reviews</i> , 2000, 24, 625-645.	8.6	9
141	Sampling in low oxygen aquatic environments: The deviation from anoxic conditions. <i>Limnology and Oceanography: Methods</i> , 0, , .	2.0	8
142	What supports the deep chlorophyll maximum in acidic lakes? The role of the bacterial CO ₂ production in the hypolimnion. <i>Limnology and Oceanography</i> , 2020, 65, 1318-1335.	3.1	7
143	[71] Microsensors. <i>Methods in Enzymology</i> , 1988, , 639-659.	1.0	6
144	Denitrification in Stream Biofilm and Sediment: In Situ Variation and Control Factors. , 1990, , 277-289.		6

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145	Electrophoretic sensitivity control applied on microscale NO _x biosensors with different membrane permeabilities. <i>Sensors and Actuators B: Chemical</i> , 2014, 202, 307-313.	7.8	4
146	Microsensor for simultaneous measurement of H ₂ and H ₂ S. <i>Sensors and Actuators B: Chemical</i> , 2018, 259, 560-564.	7.8	3
147	Oxygenic photosynthesis and light distribution in marine microbial mats. , 1994, , 305-310.		1
148	Transformation of N ₂ O and CH ₄ in Stratified Microbial Communities Studied by Use of Microsensors. , 1996, , 153-166.		0