

Dirk De-Beer

List of Publications by Year in descending order

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288
papers

19,218
citations

14644

66
h-index

17090

122
g-index

302
all docs

302
docs citations

302
times ranked

16073
citing authors

#	ARTICLE	IF	CITATIONS
1	Nitrite-driven anaerobic methane oxidation by oxygenic bacteria. <i>Nature</i> , 2010, 464, 543-548.	13.7	1,521
2	Biofilms, the customized microniche. <i>Journal of Bacteriology</i> , 1994, 176, 2137-2142.	1.0	849
3	Effects of biofilm structures on oxygen distribution and mass transport. <i>Biotechnology and Bioengineering</i> , 1994, 43, 1131-1138.	1.7	687
4	Novel microbial communities of the Haakon Mosby mud volcano and their role as a methane sink. <i>Nature</i> , 2006, 443, 854-858.	13.7	570
5	Identification and Activities In Situ of <i>Nitrosospira</i> and <i>Nitrospira</i> spp. as Dominant Populations in a Nitrifying Fluidized Bed Reactor. <i>Applied and Environmental Microbiology</i> , 1998, 64, 3480-3485.	1.4	448
6	Microscale Distribution of Populations and Activities of <i>Nitrosospira</i> and <i>Nitrospira</i> spp. along a Macroscale Gradient in a Nitrifying Bioreactor: Quantification by In Situ Hybridization and the Use of Microsensors. <i>Applied and Environmental Microbiology</i> , 1999, 65, 3690-3696.	1.4	431
7	Direct measurement of chlorine penetration into biofilms during disinfection. <i>Applied and Environmental Microbiology</i> , 1994, 60, 4339-4344.	1.4	417
8	Liquid Flow in Biofilm Systems. <i>Applied and Environmental Microbiology</i> , 1994, 60, 2711-2716.	1.4	332
9	Structural and Functional Dynamics of Sulfate-Reducing Populations in Bacterial Biofilms. <i>Applied and Environmental Microbiology</i> , 1998, 64, 3731-3739.	1.4	250
10	Liquid flow in heterogeneous biofilms. <i>Biotechnology and Bioengineering</i> , 1994, 44, 636-641.	1.7	243
11	Microenvironments and distribution of nitrifying bacteria in a membrane-bound biofilm. <i>Environmental Microbiology</i> , 2000, 2, 680-686.	1.8	239
12	A nitrite microsensor for profiling environmental biofilms. <i>Applied and Environmental Microbiology</i> , 1997, 63, 973-977.	1.4	238
13	Oxygen uptake by aquatic sediments measured with a novel non-invasive eddy-correlation technique. <i>Marine Ecology - Progress Series</i> , 2003, 261, 75-83.	0.9	229
14	Microbial Diversity of a Heavily Polluted Microbial Mat and Its Community Changes following Degradation of Petroleum Compounds. <i>Applied and Environmental Microbiology</i> , 2002, 68, 1674-1683.	1.4	212
15	Measurement of local diffusion coefficients in biofilms by microinjection and confocal microscopy. , 1997, 53, 151-158.		203
16	In situ fluxes and zonation of microbial activity in surface sediments of the Haakon Mosby Mud Volcano. <i>Limnology and Oceanography</i> , 2006, 51, 1315-1331.	1.6	198
17	Endosymbiotic sulphate-reducing and sulphide-oxidizing bacteria in an oligochaete worm. <i>Nature</i> , 2001, 411, 298-302.	13.7	196
18	Aerobic denitrification in permeable Wadden Sea sediments. <i>ISME Journal</i> , 2010, 4, 417-426.	4.4	189

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19	Transport and mineralization rates in North Sea sandy intertidal sediments, Sylt-RÄ,mÄ, Basin, Wadden Sea. <i>Limnology and Oceanography</i> , 2005, 50, 113-127.	1.6	188
20	Mechanisms of damage to corals exposed to sedimentation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, E1558-67.	3.3	184
21	Diatoms respire nitrate to survive dark and anoxic conditions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 5649-5654.	3.3	177
22	Biological and chemical sulfide oxidation in a Beggiatoa inhabited marine sediment. <i>ISME Journal</i> , 2007, 1, 341-353.	4.4	170
23	Microbial and Chemical Characterization of Underwater Fresh Water Springs in the Dead Sea. <i>PLoS ONE</i> , 2012, 7, e38319.	1.1	161
24	Insights into the Genome of Large Sulfur Bacteria Revealed by Analysis of Single Filaments. <i>PLoS Biology</i> , 2007, 5, e230.	2.6	151
25	Microbial community structure of sandy intertidal sediments in the North Sea, Sylt-RÄ,mÄ, Basin, Wadden Sea. <i>Systematic and Applied Microbiology</i> , 2006, 29, 333-348.	1.2	148
26	Microelectrode Measurements of the Activity Distribution in Nitrifying Bacterial Aggregates. <i>Applied and Environmental Microbiology</i> , 1993, 59, 573-579.	1.4	138
27	Evidence of nitrification and denitrification in high and low microbial abundance sponges. <i>Marine Biology</i> , 2010, 157, 593-602.	0.7	135
28	Microsensor study of photosynthesis and calcification in the scleractinian coral, <i>Galaxea fascicularis</i> : active internal carbon cycle. <i>Journal of Experimental Marine Biology and Ecology</i> , 2003, 288, 1-15.	0.7	134
29	Influence of electric fields and pH on biofilm structure as related to the bioelectric effect. <i>Antimicrobial Agents and Chemotherapy</i> , 1997, 41, 1876-1879.	1.4	133
30	Distribution of Sulfate-Reducing and Methanogenic Bacteria in Anaerobic Aggregates Determined by Microsensor and Molecular Analyses. <i>Applied and Environmental Microbiology</i> , 1999, 65, 4618-4629.	1.4	131
31	Relation between the structure of an aerobic biofilm and transport phenomena. <i>Water Science and Technology</i> , 1995, 32, 11-18.	1.2	128
32	On the Occurrence of Anoxic Microniches, Denitrification, and Sulfate Reduction in Aerated Activated Sludge. <i>Applied and Environmental Microbiology</i> , 1999, 65, 4189-4196.	1.4	127
33	Diversity and vertical distribution of magnetotactic bacteria along chemical gradients in freshwater microcosms. <i>FEMS Microbiology Ecology</i> , 2005, 52, 185-195.	1.3	127
34	Liquid flow and mass transport in heterogeneous biofilms. <i>Water Research</i> , 1996, 30, 2761-2765.	5.3	126
35	Photosynthesis and calcification in the calcifying algae <i>Halimeda discoidea</i> studied with microsensors. <i>Plant, Cell and Environment</i> , 2001, 24, 1209-1217.	2.8	126
36	Surficial and deep pore water circulation governs spatial and temporal scales of nutrient recycling in intertidal sand flat sediment. <i>Marine Ecology - Progress Series</i> , 2006, 326, 61-76.	0.9	126

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37	In situ distribution and activity of nitrifying bacteria in freshwater sediment. <i>Environmental Microbiology</i> , 2003, 5, 798-803.	1.8	117
38	A microsensor study of light enhanced Ca ²⁺ uptake and photosynthesis in the reef-building hermatypic coral <i>Favia</i> sp.. <i>Marine Ecology - Progress Series</i> , 2000, 194, 75-85.	0.9	115
39	Meiobenthos at the Arctic Håkon Mosby Mud Volcano, with a parental-caring nematode thriving in sulphide-rich sediments. <i>Marine Ecology - Progress Series</i> , 2006, 321, 143-155.	0.9	113
40	Structural and functional analysis of a microbial mat ecosystem from a unique permanent hypersaline inland lake: La Salada de Chiprana (NE Spain). <i>FEMS Microbiology Ecology</i> , 2003, 44, 175-189.	1.3	105
41	Denitrification by sulphur oxidizing <i>Beggiatoa</i> spp. mats on freshwater sediments. <i>Nature</i> , 1990, 344, 762-763.	13.7	104
42	Evidence for fungal and chemodenitrification based N ₂ O flux from nitrogen impacted coastal sediments. <i>Nature Communications</i> , 2017, 8, 15595.	5.8	103
43	Niche differentiation among mat-forming, sulfide-oxidizing bacteria at cold seeps of the Nile Deep Sea Fan (Eastern Mediterranean Sea). <i>Geobiology</i> , 2011, 9, 330-348.	1.1	101
44	Bioturbation and bioirrigation extend the open exchange regions in permeable sediments. <i>Limnology and Oceanography</i> , 2007, 52, 1898-1909.	1.6	100
45	A fast-responding CO ₂ microelectrode for profiling sediments, microbial mats, and biofilms. <i>Limnology and Oceanography</i> , 1997, 42, 1590-1600.	1.6	97
46	Biofilm structural heterogeneity visualized by three microscopic methods. <i>Water Research</i> , 1995, 29, 2006-2009.	5.3	95
47	Microbial effects on biofilm calcification, ambient water chemistry and stable isotope records in a highly supersaturated setting (Westerhåfer Bach, Germany). <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2008, 262, 91-106.	1.0	95
48	In Situ Coral Reef Oxygen Metabolism: An Eddy Correlation Study. <i>PLoS ONE</i> , 2013, 8, e58581.	1.1	93
49	Impact of Nitrate on the Structure and Function of Bacterial Biofilm Communities in Pipelines Used for Injection of Seawater into Oil Fields. <i>Applied and Environmental Microbiology</i> , 2008, 74, 2841-2851.	1.4	90
50	Measurement of nitrate gradients with an ion-selective microelectrode. <i>Analytica Chimica Acta</i> , 1989, 219, 351-356.	2.6	89
51	Oxygen dynamics and transport in the Mediterranean sponge <i>Aplysina aerophoba</i> . <i>Marine Biology</i> , 2008, 153, 1257-1264.	0.7	87
52	Tufa-forming biofilms of German karstwater streams: microorganisms, exopolymers, hydrochemistry and calcification. <i>Geological Society Special Publication</i> , 2010, 336, 83-118.	0.8	86
53	Photosynthesis, Respiration and Exopolymer Calcium-Binding in Biofilm Calcification (Westerhåfer) Tj ETQq1 1 0.784314 rgBT / Over 1.0 85	1.0	85
54	Full in vivo characterization of carbonate chemistry at the site of calcification in corals. <i>Science Advances</i> , 2019, 5, eaau7447.	4.7	84

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55	Effect of salinity changes on the bacterial diversity, photosynthesis and oxygen consumption of cyanobacterial mats from an intertidal flat of the Arabian Gulf. <i>Environmental Microbiology</i> , 2007, 9, 1384-1392.	1.8	83
56	A comparative experimental and multiphysics computational fluid dynamics study of coupled surface–subsurface flow in bed forms. <i>Water Resources Research</i> , 2012, 48, .	1.7	82
57	The Guaymas Basin Hiking Guide to Hydrothermal Mounds, Chimneys, and Microbial Mats: Complex Seafloor Expressions of Subsurface Hydrothermal Circulation. <i>Frontiers in Microbiology</i> , 2016, 7, 75.	1.5	82
58	Bacterial diversity of a cyanobacterial mat degrading petroleum compounds at elevated salinities and temperatures. <i>FEMS Microbiology Ecology</i> , 2006, 57, 290-301.	1.3	81
59	Photosynthesis-controlled calcification in a hypersaline microbial mat. <i>Limnology and Oceanography</i> , 2005, 50, 1836-1843.	1.6	80
60	Real-Time Microsensor Measurement of Local Metabolic Activities in <i>Ex Vivo</i> Dental Biofilms Exposed to Sucrose and Treated with Chlorhexidine. <i>Applied and Environmental Microbiology</i> , 2010, 76, 2326-2334.	1.4	80
61	Mechanisms of transient nitric oxide and nitrous oxide production in a complex biofilm. <i>ISME Journal</i> , 2009, 3, 1301-1313.	4.4	77
62	High rates of denitrification and nitrous oxide emission in arid biological soil crusts from the Sultanate of Oman. <i>ISME Journal</i> , 2013, 7, 1862-1875.	4.4	76
63	Relation between the structure of an aerobic biofilm and transport phenomena. <i>Water Science and Technology</i> , 1995, 32, 11.	1.2	75
64	Nitrification in a Biofilm at Low pH Values: Role of In Situ Microenvironments and Acid Tolerance. <i>Applied and Environmental Microbiology</i> , 2006, 72, 4283-4292.	1.4	74
65	Heterogeneous Distribution of Microbial Activity in Methanogenic Aggregates: pH and Glucose Microprofiles. <i>Applied and Environmental Microbiology</i> , 1993, 59, 3803-3815.	1.4	74
66	Intensive and extensive nitrogen loss from intertidal permeable sediments of the Wadden Sea. <i>Limnology and Oceanography</i> , 2012, 57, 185-198.	1.6	73
67	Response of ammonium-selective microelectrodes based on the neutral carrier nonactin. <i>Talanta</i> , 1988, 35, 728-730.	2.9	72
68	Identification of Bacteria Potentially Responsible for Oxic and Anoxic Sulfide Oxidation in Biofilters of a Recirculating Mariculture System. <i>Applied and Environmental Microbiology</i> , 2005, 71, 6134-6141.	1.4	70
69	Functioning of intertidal flats inferred from temporal and spatial dynamics of O ₂ , H ₂ S and pH in their surface sediment. <i>Ocean Dynamics</i> , 2009, 59, 317-332.	0.9	70
70	Denitrification in human dental plaque. <i>BMC Biology</i> , 2010, 8, 24.	1.7	70
71	Cultivation-independent characterization of <i>Candidatus</i> <i>Magnetobacterium bavaricum</i> ™ via ultrastructural, geochemical, ecological and metagenomic methods. <i>Environmental Microbiology</i> , 2010, 12, 2466-2478.	1.8	69
72	Distribution of extracellular polysaccharides and flotation of anaerobic sludge. <i>Applied Microbiology and Biotechnology</i> , 1996, 46, 197-201.	1.7	68

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73	Anaerobic bioprocessing of organic wastes. <i>World Journal of Microbiology and Biotechnology</i> , 1996, 12, 221-238.	1.7	67
74	In Situ Applications of a New Diver-Operated Motorized Microsensor Profiler. <i>Environmental Science & Technology</i> , 2007, 41, 6210-6215.	4.6	67
75	Metabolic Microenvironmental Control by Photosynthetic Biofilms under Changing Macroenvironmental Temperature and pH Conditions. <i>Applied and Environmental Microbiology</i> , 2008, 74, 6306-6312.	1.4	67
76	Evidence for water-mediated mechanisms in coral-algal interactions. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2016, 283, 20161137.	1.2	65
77	Changes in microbial communities in coastal sediments along natural CO ₂ gradients at a volcanic vent in Papua New Guinea. <i>Environmental Microbiology</i> , 2015, 17, 3678-3691.	1.8	64
78	Regulation of benthic oxygen fluxes in permeable sediments of the coastal ocean. <i>Limnology and Oceanography</i> , 2017, 62, 1935-1954.	1.6	64
79	In Situ Oxygen Dynamics in Coral-Algal Interactions. <i>PLoS ONE</i> , 2012, 7, e31192.	1.1	63
80	Microelectrode Measurements of Nitrate Gradients in the Littoral and Profundal Sediments of a Meso-Eutrophic Lake (Lake Vechten, The Netherlands). <i>Applied and Environmental Microbiology</i> , 1989, 55, 754-757.	1.4	63
81	Effect of feed composition and upflow velocity on aggregate characteristics in anaerobic upflow reactors. <i>Applied Microbiology and Biotechnology</i> , 1997, 47, 102-107.	1.7	58
82	High dissolved organic carbon release by benthic cyanobacterial mats in a Caribbean reef ecosystem. <i>Scientific Reports</i> , 2015, 5, 8852.	1.6	58
83	Comparison of respiratory activity and culturability during monochloramine disinfection of binary population biofilms. <i>Applied and Environmental Microbiology</i> , 1994, 60, 1690-1692.	1.4	58
84	Degradation of petroleum model compounds immobilized on clay by a hypersaline microbial mat. <i>Biodegradation</i> , 2002, 13, 273-283.	1.5	56
85	Molecular characterization of bacteria associated with the trophosome and the tube of <i>Lamelibrachia</i> sp., a siboglinid annelid from cold seeps in the eastern Mediterranean. <i>FEMS Microbiology Ecology</i> , 2009, 69, 395-409.	1.3	56
86	A diver-operated hyperspectral imaging and topographic surveying system for automated mapping of benthic habitats. <i>Scientific Reports</i> , 2017, 7, 7122.	1.6	56
87	The effect of pH profiles in methanogenic aggregates on the kinetics of acetate conversion. <i>Water Research</i> , 1992, 26, 1329-1336.	5.3	55
88	Spatial and temporal patterns of mineralization rates and oxygen distribution in a permeable intertidal sand flat (Sylt, Germany). <i>Limnology and Oceanography</i> , 2006, 51, 2549-2563.	1.6	54
89	Microbial mediation of stromatolite formation in karst-water creeks. <i>Limnology and Oceanography</i> , 2008, 53, 1159-1168.	1.6	54
90	Miniaturised carbon dioxide sensor designed for measurements within plant leaves. <i>Sensors and Actuators B: Chemical</i> , 2001, 81, 107-114.	4.0	53

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91	High spatial resolution measurement of oxygen consumption rates in permeable sediments. <i>Limnology and Oceanography: Methods</i> , 2005, 3, 75-85.	1.0	53
92	Tide-driven deep porewater flow in intertidal sand flats. <i>Limnology and Oceanography</i> , 2008, 53, 1521-1530.	1.6	53
93	Spatial patterns of aerobic and anaerobic mineralization rates and oxygen penetration dynamics in coral reef sediments. <i>Marine Ecology - Progress Series</i> , 2006, 309, 93-105.	0.9	53
94	Quantification of the effects of ocean acidification on sediment microbial communities in the environment: the importance of ecosystem approaches. <i>FEMS Microbiology Ecology</i> , 2016, 92, fiw027.	1.3	52
95	Probing the microenvironment of freshwater sediment macrofauna: Implications of deposit-feeding and bioirrigation for nitrogen cycling. <i>Limnology and Oceanography</i> , 2006, 51, 2538-2548.	1.6	51
96	Shell biofilm-associated nitrous oxide production in marine molluscs: processes, precursors and relative importance. <i>Environmental Microbiology</i> , 2013, 15, 1943-1955.	1.8	51
97	Metabolically active microbial communities in marine sediment under high-CO ₂ and low-pH extremes. <i>ISME Journal</i> , 2013, 7, 555-567.	4.4	51
98	Hyperspectral imaging of the microscale distribution and dynamics of microphytobenthos in intertidal sediments. <i>Limnology and Oceanography: Methods</i> , 2013, 11, 511-528.	1.0	51
99	Fine-scale measurement of diffusivity in a microbial mat with nuclear magnetic resonance imaging. <i>Limnology and Oceanography</i> , 2001, 46, 248-259.	1.6	50
100	Eruption of a deep-sea mud volcano triggers rapid sediment movement. <i>Nature Communications</i> , 2014, 5, 5385.	5.8	50
101	Organic Matter Degradation Drives Benthic Cyanobacterial Mat Abundance on Caribbean Coral Reefs. <i>PLoS ONE</i> , 2015, 10, e0125445.	1.1	50
102	Cyanobacterial photosynthesis under sulfidic conditions: insights from the isolate <i>Leptolyngbya</i> sp. strain hensonii. <i>ISME Journal</i> , 2018, 12, 568-584.	4.4	50
103	Oxygen dynamics at the base of a biofilm studied with planar optodes. <i>Aquatic Microbial Ecology</i> , 1998, 14, 223-233.	0.9	50
104	Bioturbation effects of <i>Chironomus riparius</i> on the benthic N-cycle as measured using microsensors and microbiological assays. <i>Aquatic Microbial Ecology</i> , 2002, 27, 175-185.	0.9	50
105	Oxygen-independent glucose microsensor based on glucose oxidase. <i>Analytica Chimica Acta</i> , 1991, 242, 275-278.	2.6	49
106	The use of microsensors to determine population distributions in UASB aggregates. <i>Water Science and Technology</i> , 1995, 31, 273-280.	1.2	49
107	Sulfide-Oxidizing Activity and Bacterial Community Structure in a Fluidized Bed Reactor from a Zero-Discharge Mariculture System. <i>Environmental Science & Technology</i> , 2005, 39, 1802-1810.	4.6	49
108	The O ₂ , pH and Ca ²⁺ Microenvironment of Benthic Foraminifera in a High CO ₂ World. <i>PLoS ONE</i> , 2012, 7, e50010.	1.1	49

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109	Modular Spectral Imaging System for Discrimination of Pigments in Cells and Microbial Communities. <i>Applied and Environmental Microbiology</i> , 2009, 75, 758-771.	1.4	48
110	Uptake Rates of Oxygen and Sulfide Measured with Individual <i>Thiomargarita namibiensis</i> Cells by Using Microelectrodes. <i>Applied and Environmental Microbiology</i> , 2002, 68, 5746-5749.	1.4	47
111	Nitric Oxide Microsensor for High Spatial Resolution Measurements in Biofilms and Sediments. <i>Analytical Chemistry</i> , 2008, 80, 1152-1158.	3.2	47
112	Mats of psychrophilic thiotrophic bacteria associated with cold seeps of the Barents Sea. <i>Biogeosciences</i> , 2012, 9, 2947-2960.	1.3	47
113	Gradients in immobilized biological systems. <i>Analytica Chimica Acta</i> , 1988, 213, 259-265.	2.6	46
114	Manganese oxidation by microbial consortia from sand filters. <i>Microbial Ecology</i> , 1992, 24, 91-108.	1.4	46
115	Phylogenetic diversity and activity of aerobic heterotrophic bacteria from a hypersaline oil-polluted microbial mat. <i>Systematic and Applied Microbiology</i> , 2007, 30, 319-330.	1.2	46
116	Microbial photosynthesis in coral reef sediments (Heron Reef, Australia). <i>Estuarine, Coastal and Shelf Science</i> , 2008, 76, 876-888.	0.9	46
117	The influence of pore-water advection, benthic photosynthesis, and respiration on calcium carbonate dynamics in reef sands. <i>Limnology and Oceanography</i> , 2012, 57, 809-825.	1.6	46
118	Microsensors as a tool to determine chemical microgradients and bacterial activity in wastewater biofilms and flocs. <i>Biodegradation</i> , 1998, 9, 159-167.	1.5	45
119	Hydrogen sulfide can inhibit and enhance oxygenic photosynthesis in a cyanobacterium from sulfidic springs. <i>Environmental Microbiology</i> , 2015, 17, 3301-3313.	1.8	45
120	Distribution, Localization, and Phylogeny of Abundant Populations of Crenarchaeota in Anaerobic Granular Sludge. <i>Applied and Environmental Microbiology</i> , 2005, 71, 7523-7527.	1.4	44
121	Dissimilatory nitrate reduction by <i>Aspergillus terreus</i> isolated from the seasonal oxygen minimum zone in the Arabian Sea. <i>BMC Microbiology</i> , 2014, 14, 35.	1.3	44
122	Combining accelerometer data and contextual variables to evaluate the risk of driver behaviour. <i>Transportation Research Part F: Traffic Psychology and Behaviour</i> , 2016, 41, 80-96.	1.8	44
123	Internal pH regulation facilitates in situ long-term acclimation of massive corals to end-of-century carbon dioxide conditions. <i>Scientific Reports</i> , 2016, 6, 30688.	1.6	44
124	Oxygen and pH microprofiles above corroding mild steel covered with a biofilm. <i>Biofouling</i> , 1995, 8, 273-280.	0.8	43
125	Geochemical processes and chemosynthetic primary production in different thiotrophic mats of the Håkon Mosby Mud Volcano (Barents Sea). <i>Limnology and Oceanography</i> , 2010, 55, 931-949.	1.6	43
126	Dust storms over the Arabian Gulf: a possible indicator of climate changes consequences. <i>Aquatic Ecosystem Health and Management</i> , 2011, 14, 260-268.	0.3	43

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127	Microbial diversity of eolian dust sources from saline lake sediments and biological soil crusts in arid Southern Australia. <i>FEMS Microbiology Ecology</i> , 2012, 80, 294-304.	1.3	43
128	Microscale profiling of photosynthesis-related variables in a highly productive biofilm photobioreactor. <i>Biotechnology and Bioengineering</i> , 2016, 113, 1046-1055.	1.7	43
129	Colonies of marine cyanobacteria <i>Trichodesmium</i> interact with associated bacteria to acquire iron from dust. <i>Communications Biology</i> , 2019, 2, 284.	2.0	43
130	Flowing biofilms as a transport mechanism for biomass through porous media under laminar and turbulent conditions in a laboratory reactor system. <i>Biofouling</i> , 2005, 21, 161-168.	0.8	42
131	Physiological Adaptation of a Nitrate-Storing <i>Beggiatoa</i> sp. to Diel Cycling in a Phototrophic Hypersaline Mat. <i>Applied and Environmental Microbiology</i> , 2007, 73, 7013-7022.	1.4	42
132	The role of nitric-oxide-synthase-derived nitric oxide in multicellular traits of <i>Bacillus subtilis</i> 3610: biofilm formation, swarming, and dispersal. <i>BMC Microbiology</i> , 2011, 11, 111.	1.3	42
133	Biotic Control of Surface pH and Evidence of Light-Induced H ⁺ Pumping and Ca ²⁺ +H ⁺ Exchange in a Tropical Crustose Coralline Alga. <i>PLoS ONE</i> , 2016, 11, e0159057.	1.1	42
134	Nitrous oxide production associated with coastal marine invertebrates. <i>Marine Ecology - Progress Series</i> , 2010, 415, 1-9.	0.9	42
135	Influence of nitrate on manganese removing microbial consortia from sand filters. <i>Water Research</i> , 1995, 29, 579-587.	5.3	41
136	Microbial communities near the oxic/anoxic interface in the hydrothermal system of Vulcano Island, Italy. <i>Chemical Geology</i> , 2005, 224, 169-182.	1.4	41
137	Anoxygenic Photosynthesis Controls Oxygenic Photosynthesis in a Cyanobacterium from a Sulfidic Spring. <i>Applied and Environmental Microbiology</i> , 2015, 81, 2025-2031.	1.4	41
138	NIR optical carbon dioxide sensors based on highly photostable dihydroxy-aza-BODIPY dyes. <i>Journal of Materials Chemistry C</i> , 2015, 3, 5474-5483.	2.7	41
139	Nitrogen fixation and diversity of benthic cyanobacterial mats on coral reefs in Curaçao. <i>Coral Reefs</i> , 2018, 37, 861-874.	0.9	41
140	Aerobic Organic Carbon Mineralization by Sulfate-Reducing Bacteria in the Oxygen-Saturated Photic Zone of a Hypersaline Microbial Mat. <i>Microbial Ecology</i> , 2005, 49, 291-300.	1.4	40
141	<i>Microbial Biofilms.</i> , 2006, , 904-937.		40
142	Vertical activity distribution of dissimilatory nitrate reduction in coastal marine sediments. <i>Biogeosciences</i> , 2013, 10, 7509-7523.	1.3	40
143	Thermal stress reduces pocilloporid coral resilience to ocean acidification by impairing control over calcifying fluid chemistry. <i>Science Advances</i> , 2021, 7, .	4.7	40
144	Spatial distribution of calcification and photosynthesis in the scleractinian coral <i>Galaxea fascicularis</i> . <i>Coral Reefs</i> , 2005, 24, 173-180.	0.9	39

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145	Towards improved monitoring of offshore carbon storage: A real-world field experiment detecting a controlled sub-seafloor CO ₂ release. <i>International Journal of Greenhouse Gas Control</i> , 2021, 106, 103237.	2.3	39
146	Response of the Ubiquitous Pelagic Diatom <i>Thalassiosira weissflogii</i> to Darkness and Anoxia. <i>PLoS ONE</i> , 2013, 8, e82605.	1.1	39
147	A microsensor for carbonate ions suitable for microprofiling in freshwater and saline environments. <i>Limnology and Oceanography: Methods</i> , 2008, 6, 532-541.	1.0	38
148	Light utilization efficiency in photosynthetic microbial mats. <i>Environmental Microbiology</i> , 2012, 14, 982-992.	1.8	38
149	Intermediate sulfur oxidation state compounds in the euxinic surface sediments of the Dvurechenskii mud volcano (Black Sea). <i>Geochimica Et Cosmochimica Acta</i> , 2013, 105, 130-145.	1.6	38
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