Antje Boetius

List of Publications by Year
in descending order

201 papers	24,940 citations	8749 75 h-index	7944 149 g-index
235 all docs	235 docs citations	235 times ranked	15045 citing authors

#	Article	IF	Citations
1	Comparative genomics reveals electron transfer and syntrophic mechanisms differentiating methanotrophic and methanogenic archaea. PLoS Biology, 2022, 20, e3001508.	2.6	62
2	Giant sponge grounds of Central Arctic seamounts are associated with extinct seep life. Nature Communications, 2022, 13, 638.	5.8	22
3	Comparison of Two 16S rRNA Primers (V3â€"V4 and V4â€"V5) for Studies of Arctic Microbial Communities. Frontiers in Microbiology, 2021, 12, 637526.	1.5	77
4	In situ observation of sponge trails suggests common sponge locomotion in the deep central Arctic. Current Biology, 2021, 31, R368-R370.	1.8	9
5	Submesoscale physicochemical dynamics directly shape bacterioplankton community structure in space and time. Limnology and Oceanography, 2021, 66, 2901-2913.	1.6	12
6	Spatial Distribution of Arctic Bacterioplankton Abundance Is Linked to Distinct Water Masses and Summertime Phytoplankton Bloom Dynamics (Fram Strait, 79Â°N). Frontiers in Microbiology, 2021, 12, 658803.	1.5	16
7	Sulfurization of dissolved organic matter in the anoxic water column of the Black Sea. Science Advances, 2021, 7, .	4.7	34
8	Thermophilic Archaea Activate Liquid Alkanes Using Divergent Methyl-Coenzyme M Reductases. , 2021, , .		0
9	Sea ice presence is linked to higher carbon export and vertical microbial connectivity in the Eurasian Arctic Ocean. Communications Biology, 2021, 4, 1255.	2.0	21
10	Sea-ice derived meltwater stratification slows the biological carbon pump: results from continuous observations. Nature Communications, 2021, 12, 7309.	5.8	31
11	Recovery of Paleodictyon patterns after simulated mining activity on Pacific nodule fields. Marine Biodiversity, 2021, 51, 1.	0.3	4
12	The polar night shift: seasonal dynamics and drivers of Arctic Ocean microbiomes revealed by autonomous sampling. ISME Communications, 2021, 1, .	1.7	27
13	Scientific Challenges and Present Capabilities in Underwater Robotic Vehicle Design and Navigation for Oceanographic Exploration Under-Ice. Remote Sensing, 2020, 12, 2588.	1.8	30
14	Effects of a deep-sea mining experiment on seafloor microbial communities and functions after 26 years. Science Advances, 2020, 6, eaaz5922.	4.7	64
15	Summertime Chlorophyll a and Particulate Organic Carbon Standing Stocks in Surface Waters of the Fram Strait and the Arctic Ocean (1991â€"2015). Frontiers in Marine Science, 2020, 7, .	1.2	26
16	Molecular Composition of Dissolved Organic Matter in Sediment Porewater of the Arctic Deep-Sea Observatory HAUSGARTEN (Fram Strait). Frontiers in Marine Science, 2020, 7, .	1.2	13
17	Diversity and metabolism of <i>Woeseiales</i> bacteria, global members of marine sediment communities. ISME Journal, 2020, 14, 1042-1056.	4.4	51
18	What Feeds the Benthos in the Arctic Basins? Assembling a Carbon Budget for the Deep Arctic Ocean. Frontiers in Marine Science, 2020, 7, .	1.2	42

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19	â€œ <i>Candidatus</i> Ethanoperedens,â€•a Thermophilic Genus of <i>Archaea</i> Mediating the Anaerobic Oxidation of Ethane. MBio, 2020, 11, .	1.8	66
20	The contribution of microbial communities in polymetallic nodules to the diversity of the deep-sea microbiome of the Peru Basin (4130â€“4198â€‰m depth). Biogeosciences, 2020, 17, 3203-3222.	1.3	26
21	Anaerobic Degradation of Non-Methane Alkanes by â€œ <i>Candidatus</i> Methanolipariaâ€•in Hydrocarbon Seeps of the Gulf of Mexico. MBio, 2019, 10, .	1.8	63
22	Deep-sea megabenthos communities of the Eurasian Central Arctic are influenced by ice-cover and sea-ice algal falls. PLoS ONE, 2019, 14, e0211009.	1.1	25
23	Responses of an abyssal meiobenthic community to short-term burial with crushed nodule particles in the south-east Pacific. Biogeosciences, 2019, 16, 2329-2341.	1.3	9
24	Scientistsâ€™ warning to humanity: microorganisms and climate change. Nature Reviews Microbiology, 2019, 17, 569-586.	13.6	1,138
25	Anaerobic Methane Oxidizers. , 2019, , 113-132.		3
26	Global change microbiology â€” big questions about small life for our future. Nature Reviews Microbiology, 2019, 17, 331-332.	13.6	20
27	Microbial Diversity and Connectivity in Deep-Sea Sediments of the South Atlantic Polar Front. Frontiers in Microbiology, 2019, 10, 665.	1.5	32
28	Arctic warming interrupts the Transpolar Drift and affects long-range transport of sea ice and ice-rafted matter. Scientific Reports, 2019, 9, 5459.	1.6	108
29	In situ development of a methanotrophic microbiome in deep-sea sediments. ISME Journal, 2019, 13, 197-213.	4.4	61
30	Ocean Floor Observation and Bathymetry System (OFOBS): A New Towed Camera/Sonar System for Deep-Sea Habitat Surveys. IEEE Journal of Oceanic Engineering, 2019, 44, 87-99.	2.1	54
31	12 Fragen an Antje Boetius. Gaia, 2019, 28, 254-255.	0.3	0
32	Gene expression and ultrastructure of mesoâ€•and thermophilic methanotrophic consortia. Environmental Microbiology, 2018, 20, 1651-1666.	1.8	90
33	Marine microbes in 4D â€” using time series observation to assess the dynamics of the ocean microbiome and its links to ocean health. Current Opinion in Microbiology, 2018, 43, 169-185.	2.3	54
34	CO ₂ leakage alters biogeochemical and ecological functions of submarine sands. Science Advances, 2018, 4, eaao2040.	4.7	27
35	Mind the seafloor. Science, 2018, 359, 34-36.	6.0	60
36	Microbial Communities in the East and West Fram Strait During Sea Ice Melting Season. Frontiers in Marine Science, 2018, 5, .	1.2	53

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37	Anaerobic Methane Oxidizers. , 2018, , 1-21.		5
38	Spatial distribution of benthic macrofauna in the Central Arctic Ocean. PLoS ONE, 2018, 13, e0200121.	1.1	19
39	Effects of Ice-Algal Aggregate Export on the Connectivity of Bacterial Communities in the Central Arctic Ocean. Frontiers in Microbiology, 2018, 9, 1035.	1.5	53
40	Hypoxia causes preservation of labile organic matter and changes seafloor microbial community composition (Black Sea). Science Advances, 2017, 3, e1601897.	4.7	145
41	Temporal and Spatial Variations of Bacterial and Faunal Communities Associated with Deep-Sea Wood Falls. PLoS ONE, 2017, 12, e0169906.	1.1	41
42	From pole to pole: 33Âyears of physical oceanography onboard R/V <i>Polarstern</i>. Earth System Science Data, 2017, 9, 211-220.	3.7	13
43	Mikroorganismen des Tiefseebodens: Vielfalt, Verteilung, Funktion. , 2017, , 211-222.		0
44	Distribution and Composition of Thiotrophic Mats in the Hypoxic Zone of the Black Sea (150â€“170 m) Tj ETQq0 0 0 rgBT /Overlock 10	1.5	15
45	Diazotroph Diversity in the Sea Ice, Melt Ponds, and Surface Waters of the Eurasian Basin of the Central Arctic Ocean. Frontiers in Microbiology, 2016, 7, 1884.	1.5	39
46	<i>Candidatus</i> Desulfofervidus auxilii, a hydrogenotrophic sulfateâ€reducing bacterium involved in the thermophilic anaerobic oxidation of methane. Environmental Microbiology, 2016, 18, 3073-3091.	1.8	115
47	Association of deep-sea incirrate octopods with manganese crusts and nodule fields in the Pacific Ocean. Current Biology, 2016, 26, R1268-R1269.	1.8	50
48	Dissolved organic matter in pore water of Arctic Ocean sediments: Environmental influence on molecular composition. Organic Geochemistry, 2016, 97, 41-52.	0.9	56
49	Microbial ecology: Seeing growth without culture. Nature Microbiology, 2016, 1, 16158.	5.9	0
50	Diversity and Biogeography of Bathyal and Abyssal Seafloor Bacteria. PLoS ONE, 2016, 11, e0148016.	1.1	132
51	Influence of ice thickness and surface properties on light transmission through <scp>A</scp>rctic sea ice. Journal of Geophysical Research: Oceans, 2015, 120, 5932-5944.	1.0	70
52	Patterns and trends of macrobenthic abundance, biomass and production in the deep Arctic Ocean. Polar Research, 2015, 34, 24008.	1.6	28
53	Photosynthetic production in the central Arctic Ocean during the record sea-ice minimum in 2012. Biogeosciences, 2015, 12, 3525-3549.	1.3	149
54	A participative tool for sharing, annotating and archiving submarine video data. , 2015, , .		2

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55	Effects of fluctuating hypoxia on benthic oxygen consumption in the Black Sea (Crimean shelf). Biogeosciences, 2015, 12, 5075-5092.	1.3	16
56	Spatial scales of bacterial community diversity at cold seeps (Eastern Mediterranean Sea). ISME Journal, 2015, 9, 1306-1318.	4.4	69
57	Global dispersion and local diversification of the methane seep microbiome. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 4015-4020.	3.3	248
58	Intercellular wiring enables electron transfer between methanotrophic archaea and bacteria. Nature, 2015, 526, 587-590.	13.7	469
59	I'm always drawn back to the ice. New Scientist, 2015, 225, 28-29.	0.0	12
60	Microbial ecology of the cryosphere: sea ice and glacial habitats. Nature Reviews Microbiology, 2015, 13, 677-690.	13.6	344
61	Eruption of a deep-sea mud volcano triggers rapid sediment movement. Nature Communications, 2014, 5, 5385.	5.8	50
62	Bacterial taxaâ€“area and distanceâ€“decay relationships in marine environments. Molecular Ecology, 2014, 23, 954-964.	2.0	147
63	Ecological coherence of diversity patterns derived from classical fingerprinting and <scp>N</scp>ext <scp>G</scp>eneration <scp>S</scp>equencing techniques. Environmental Microbiology, 2014, 16, 2672-2681.	1.8	73
64	Methane fluxes and carbonate deposits at a cold seep area of the Central Nile Deep Sea Fan, Eastern Mediterranean Sea. Marine Geology, 2014, 347, 27-42.	0.9	65
65	Influence of the physical environment on polar phytoplankton blooms: A case study in the Fram Strait. Journal of Marine Systems, 2014, 132, 196-207.	0.9	55
66	Composition, Buoyancy Regulation and Fate of Ice Algal Aggregates in the Central Arctic Ocean. PLoS ONE, 2014, 9, e107452.	1.1	101
67	Formation of carbonate chimneys in the Mediterranean Sea linked to deep-water oxygen depletion. Nature Geoscience, 2013, 6, 755-760.	5.4	105
68	Seafloor oxygen consumption fuelled by methane from cold seeps. Nature Geoscience, 2013, 6, 725-734.	5.4	409
69	Export of Algal Biomass from the Melting Arctic Sea Ice. Science, 2013, 339, 1430-1432.	6.0	383
70	FRAM - FRontiers in Arctic marine Monitoring Visions for permanent observations in a gateway to the Arctic Ocean. , 2013, , .		20
71	Metabolically active microbial communities in marine sediment under high-CO2 and low-pH extremes. ISME Journal, 2013, 7, 555-567.	4.4	51
72	Macroecological patterns of marine bacteria on a global scale. Journal of Biogeography, 2013, 40, 800-811.	1.4	53

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73	Oxygen dynamics in the Black Sea as seen by Argo profiling floats. Geophysical Research Letters, 2013, 40, 3085-3090.	1.5	39
74	Limitations of microbial hydrocarbon degradation at the Amon mud volcano (Nile deep-sea fan). Biogeosciences, 2013, 10, 3269-3283.	1.3	22
75	Saturated CO₂ inhibits microbial processes in CO₂-vented deep-sea sediments. Biogeosciences, 2013, 10, 5639-5649.	1.3	18
76	Microbial Communities of Deep-Sea Methane Seeps at Hikurangi Continental Margin (New Zealand). PLoS ONE, 2013, 8, e72627.	1.1	78
77	Methane-Carbon Flow into the Benthic Food Web at Cold Seeps â€“ A Case Study from the Costa Rica Subduction Zone. PLoS ONE, 2013, 8, e74894.	1.1	70
78	Microbial habitat connectivity across spatial scales and hydrothermal temperature gradients at Guaymas Basin. Frontiers in Microbiology, 2013, 4, 207.	1.5	28
79	How Deep-Sea Wood Falls Sustain Chemosynthetic Life. PLoS ONE, 2013, 8, e53590.	1.1	113
80	Relationships between Host Phylogeny, Host Type and Bacterial Community Diversity in Cold-Water Coral Reef Sponges. PLoS ONE, 2013, 8, e55505.	1.1	64
81	Biogeography of Deep-Sea Benthic Bacteria at Regional Scale (LTER HAUSGARTEN, Fram Strait, Arctic). PLoS ONE, 2013, 8, e72779.	1.1	65
82	The energyâ€“diversity relationship of complex bacterial communities in Arctic deep-sea sediments. ISME Journal, 2012, 6, 724-732.	4.4	131
83	Anaerobic oxidation of methane at different temperature regimes in Guaymas Basin hydrothermal sediments. ISME Journal, 2012, 6, 1018-1031.	4.4	149
84	Correction for Holler et al., Carbon and sulfur back flux during anaerobic microbial oxidation of methane and coupled sulfate reduction. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 21170-21170.	3.3	13
85	Diversity and dynamics of rare and of resident bacterial populations in coastal sands. ISME Journal, 2012, 6, 542-553.	4.4	224
86	Mats of psychrophilic thiotrophic bacteria associated with cold seeps of the Barents Sea. Biogeosciences, 2012, 9, 2947-2960.	1.3	47
87	Bacterial diversity and biogeochemistry of different chemosynthetic habitats of the REGAB cold seep (West African margin, 3160 m water depth). Biogeosciences, 2012, 9, 5031-5048.	1.3	43
88	The Microbial Olympics. Nature Reviews Microbiology, 2012, 10, 583-588.	13.6	15
89	Assessing subâ€seafloor microbial activity by combined stable isotope probing with deuterated water and ¹³Câ€bicarbonate. Environmental Microbiology, 2012, 14, 1517-1527.	1.8	70
90	Spatial Scales of Bacterial Diversity in Cold-Water Coral Reef Ecosystems. PLoS ONE, 2012, 7, e32093.	1.1	44

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91	Anaerobic Oxidation of Methane with Sulfate. Encyclopedia of Earth Sciences Series, 2011, , 36-47.	0.1	2
92	Factors controlling the distribution of anaerobic methanotrophic communities in marine environments: Evidence from intact polar membrane lipids. Geochimica Et Cosmochimica Acta, 2011, 75, 164-184.	1.6	111
93	Global Patterns of Bacterial Beta-Diversity in Seafloor and Seawater Ecosystems. PLoS ONE, 2011, 6, e24570.	1.1	525
94	A novel, matâ€forming <i>Thiomargarita</i> population associated with a sulfidic fluid flow from a deepâ€sea mud volcano. Environmental Microbiology, 2011, 13, 495-505.	1.8	30
95	Niche differentiation among mat-forming, sulfide-oxidizing bacteria at cold seeps of the Nile Deep Sea Fan (Eastern Mediterranean Sea). Geobiology, 2011, 9, 330-348.	1.1	101
96	Relative abundances of methane- and sulphur-oxidising symbionts in the gills of a cold seep mussel and link to their potential energy sources. Geobiology, 2011, 9, 481-491.	1.1	34
97	Evidence for anaerobic oxidation of methane in sediments of â€ƒa freshwater system (Lago di Cadagno). FEMS Microbiology Ecology, 2011, 76, 26-38.	1.3	166
98	Quantification of seep-related methane gas emissions at Tommeliten, North Sea. Continental Shelf Research, 2011, 31, 867-878.	0.9	107
99	Diversity and distribution of cold-seep fauna associated with different geological and environmental settings at mud volcanoes and pockmarks of the Nile Deep-Sea Fan. Marine Biology, 2011, 158, 1187-1210.	0.7	67
100	Thermophilic anaerobic oxidation of methane by marine microbial consortia. ISME Journal, 2011, 5, 1946-1956.	4.4	185
101	Carbon and sulfur back flux during anaerobic microbial oxidation of methane and coupled sulfate reduction. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, E1484-90.	3.3	104
102	Deep-Water Chemosynthetic Ecosystem Research during the Census of Marine Life Decade and Beyond: A Proposed Deep-Ocean Road Map. PLoS ONE, 2011, 6, e23259.	1.1	105
103	Novel observations of <i>Thiobacterium</i>, a sulfur-storing Gammaproteobacterium producing gelatinous mats. ISME Journal, 2010, 4, 1031-1043.	4.4	12
104	Improved <i>dsrA</i> -Based Terminal Restriction Fragment Length Polymorphism Analysis of Sulfate-Reducing Bacteria. Applied and Environmental Microbiology, 2010, 76, 5308-5311.	1.4	17
105	Transport and consumption of oxygen and methane in different habitats of the HÃ¥kon Mosby Mud Volcano (HMMV). Limnology and Oceanography, 2010, 55, 2366-2380.	1.6	54
106	Geochemical processes and chemosynthetic primary production in different thiotrophic mats of the HÃ¥kon Mosby Mud Volcano (Barents Sea). Limnology and Oceanography, 2010, 55, 931-949.	1.6	43
107	Methane and sulfide fluxes in permanent anoxia: In situ studies at the Dvurechenskii mud volcano (Sorokin Trough, Black Sea). Geochimica Et Cosmochimica Acta, 2010, 74, 5002-5018.	1.6	26
108	Impact of natural oil and higher hydrocarbons on microbial diversity, distribution, and activity in Gulf of Mexico cold-seep sediments. Deep-Sea Research Part II: Topical Studies in Oceanography, 2010, 57, 2008-2021.	0.6	171

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109	Biomarker indicators for anaerobic oxidizers of methane in brackish-marine sediments with diffusive methane fluxes. Organic Geochemistry, 2010, 41, 414-426.	0.9	40
110	Mud Volcanoes. , 2010, , 205-214.		13
111	Anaerobic Methane Oxidizers. , 2010, , 2023-2032.		5
112	Global Patterns and Predictions of Seafloor Biomass Using Random Forests. PLoS ONE, 2010, 5, e15323.	1.1	287
113	Geochemical processes and chemosynthetic primary production in different thiotrophic mats of the HÃ¥kon Mosby Mud Volcano (Barents Sea). Limnology and Oceanography, 2010, 55, 931-949.	1.6	34
114	Methods for the Study of Cold Seep Ecosystems. , 2010, , 3443-3451.		0
115	Habitats of Anaerobic Methane Oxidizers. , 2010, , 2193-2202.		2
116	Biogeochemistry of a low-activity cold seep in the Larsen B area, western Weddell Sea, Antarctica. Biogeosciences, 2009, 6, 2383-2395.	1.3	58
117	The Future of Integrated Deep-Sea Research in Europe: The HERMIONE Project. Oceanography, 2009, 22, 178-191.	0.5	16
118	In Situ Technologies for Studying Deep-Sea Hotspot Ecosystems. Oceanography, 2009, 22, 177-177.	0.5	11
119	Temporal variations in microbial activities and carbon turnover in subtidal sandy sediments. Biogeosciences, 2009, 6, 1149-1165.	1.3	38
120	Biodiversity of Cold Seep Ecosystems Along the European Margins. Oceanography, 2009, 22, 110-127.	0.5	140
121	Structure and Drivers of Cold Seep Ecosystems. Oceanography, 2009, 22, 92-109.	0.5	110
122	An experimental study on short-term changes in the anaerobic oxidation of methane in response to varying methane and sulfate fluxes. Biogeosciences, 2009, 6, 867-876.	1.3	28
123	Thriving in Salt. Science, 2009, 324, 1523-1525.	6.0	37
124	Microbial methane oxidation and sulfate reduction at cold seeps of the deep Eastern Mediterranean Sea. Marine Geology, 2009, 261, 114-127.	0.9	69
125	Inter- and intra-habitat bacterial diversity associated with cold-water corals. ISME Journal, 2009, 3, 756-759.	4.4	57
126	Time- and sediment depth-related variations in bacterial diversity and community structure in subtidal sands. ISME Journal, 2009, 3, 780-791.	4.4	159

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127	Molecular characterization of bacteria associated with the trophosome and the tube of Lamellibrachia sp., a siboglinid annelid from cold seeps in the eastern Mediterranean. FEMS Microbiology Ecology, 2009, 69, 395-409.	1.3	56
128	Impact of space, time and complex environments on microbial communities. Clinical Microbiology and Infection, 2009, 15, 60-62.	2.8	4
129	Menes caldera, a highly active site of brine seepage in the Eastern Mediterranean sea: â€œIn situâ€• observations from the NAUTINIL expedition (2003). Marine Geology, 2009, 261, 138-152.	0.9	48
130	Anaerobic Oxidation of Methane: Progress with an Unknown Process. Annual Review of Microbiology, 2009, 63, 311-334.	2.9	1,405
131	Diversity and distribution of methane-oxidizing microbial communities associated with different faunal assemblages in a giant pockmark of the Gabon continental margin. Deep-Sea Research Part II: Topical Studies in Oceanography, 2009, 56, 2248-2258.	0.6	49
132	Crystal ball â€“ 2009. Environmental Microbiology Reports, 2009, 1, 3-26.	1.0	5
133	Substantial ¹³C/¹²C and D/H fractionation during anaerobic oxidation of methane by marine consortia enriched <i>in vitro</i>. Environmental Microbiology Reports, 2009, 1, 370-376.	1.0	111
134	The Seabed as Natural Laboratory: Lessons From Uncultivated Methanotrophs. Microbiology Monographs, 2009, , 59-82.	0.3	4
135	The Seabed as Natural Laboratory: Lessons From Uncultivated Methanotrophs. Microbiology Monographs, 2009, , 293-316.	0.3	6
136	Biogeochemistry of a deep-sea whale fall: sulfate reduction, sulfide efflux and methanogenesis. Marine Ecology - Progress Series, 2009, 382, 1-21.	0.9	117
137	High-resolution mapping of large gas emitting mud volcanoes on the Egyptian continental margin (Nile Deep Sea Fan) by AUV surveys. Marine Geophysical Researches, 2008, 29, 275-290.	0.5	53
138	On the relationship between methane production and oxidation by anaerobic methanotrophic communities from cold seeps of the Gulf of Mexico. Environmental Microbiology, 2008, 10, 1108-1117.	1.8	66
139	Assimilation of methane and inorganic carbon by microbial communities mediating the anaerobic oxidation of methane. Environmental Microbiology, 2008, 10, 2287-2298.	1.8	136
140	Endosymbioses between bacteria and deepâ€sea siboglinid tubeworms from an Arctic Cold Seep (Haakon) Tj ETQq0 0 0 rgBT /Overlock	1.8	107
141	Intact polar lipids of anaerobic methanotrophic archaea and associated bacteria. Organic Geochemistry, 2008, 39, 992-999.	0.9	118
142	Biogeochemistry and Community Composition of Iron- and Sulfur-Precipitating Microbial Mats at the Chefren Mud Volcano (Nile Deep Sea Fan, Eastern Mediterranean). Applied and Environmental Microbiology, 2008, 74, 3198-3215.	1.4	137
143	Biogeochemical processes and microbial diversity of the Gullfaks and Tommeliten methane seeps (Northern North Sea). Biogeosciences, 2008, 5, 1127-1144.	1.3	54
144	EXtreme ecosystem studies in the deep OCEan : Technological Developments. , 2007, , .		5

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145	Diversity and Abundance of Aerobic and Anaerobic Methane Oxidizers at the Haakon Mosby Mud Volcano, Barents Sea. Applied and Environmental Microbiology, 2007, 73, 3348-3362.	1.4	338
146	Seafloor geological studies above active gas chimneys off Egypt (Central Nile Deep Sea Fan). Deep-Sea Research Part I: Oceanographic Research Papers, 2007, 54, 1146-1172.	0.6	89
147	Consumption of Methane and CO2 by Methanotrophic Microbial Mats from Gas Seeps of the Anoxic Black Sea. Applied and Environmental Microbiology, 2007, 73, 2271-2283.	1.4	157
148	The German Contribution to ESONET - Integrating Activities for Setting up an Interoperable Ocean Observation System in Europe. , 2007, , .		4
149	Feast and famine â€" microbial life in the deep-sea bed. Nature Reviews Microbiology, 2007, 5, 770-781.	13.6	577
150	Biological and chemical sulfide oxidation in a Beggiatoa inhabited marine sediment. ISME Journal, 2007, 1, 341-353.	4.4	170
151	In vitro cell growth of marine archaeal-bacterial consortia during anaerobic oxidation of methane with sulfate. Environmental Microbiology, 2007, 9, 187-196.	1.8	294
152	Novel microbial communities of the Haakon Mosby mud volcano and their role as a methane sink. Nature, 2006, 443, 854-858.	13.7	570
153	Anaerobic Biodegradation of Hydrocarbons Including Methane. , 2006, , 1028-1049.		70
154	Methane discharge from a deep-sea submarine mud volcano into the upper water column by gas hydrate-coated methane bubbles. Earth and Planetary Science Letters, 2006, 243, 354-365.	1.8	268
155	Microbial methane turnover at mud volcanoes of the Gulf of Cadiz. Geochimica Et Cosmochimica Acta, 2006, 70, 5336-5355.	1.6	173
156	Desulfobacter psychrotolerans sp. nov., a new psychrotolerant sulfate-reducing bacterium and descriptions of its physiological response to temperature changes. Antonie Van Leeuwenhoek, 2006, 89, 109-124.	0.7	29
157	In situ fluxes and zonation of microbial activity in surface sediments of the HÃ¥kon Mosby Mud Volcano. Limnology and Oceanography, 2006, 51, 1315-1331.	1.6	198
158	Microbial community in a sediment-hosted CO2 lake of the southern Okinawa Trough hydrothermal system. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 14164-14169.	3.3	159
159	Spatial variations of methanotrophic consortia at cold methane seeps: implications from a high-resolution molecular and isotopic approach. Geobiology, 2005, 3, 195-209.	1.1	121
160	Environmental regulation of the anaerobic oxidation of methane: a comparison of ANME-I and ANME-II communities. Environmental Microbiology, 2005, 7, 98-106.	1.8	289
161	Methane emission and consumption at a North Sea gas seep (Tommeliten area). Biogeosciences, 2005, 2, 335-351.	1.3	129
162	Subsurface Microbial Methanotrophic Mats in the Black Sea. Applied and Environmental Microbiology, 2005, 71, 6375-6378.	1.4	87

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163	Environmental control on anaerobic oxidation of methane in the gassy sediments of EckernfÃ¶rde Bay (German Baltic). Limnology and Oceanography, 2005, 50, 1771-1786.	1.6	181
164	Diversity and Distribution of Methanotrophic Archaea at Cold Seeps. Applied and Environmental Microbiology, 2005, 71, 467-479.	1.4	556
165	Anaerobic oxidation of methane and sulfate reduction along the Chilean continental margin. Geochimica Et Cosmochimica Acta, 2005, 69, 2767-2779.	1.6	173
166	OCEAN SCIENCE: Lost City Life. Science, 2005, 307, 1420-1422.	6.0	37
167	Molecular biogeochemistry of sulfate reduction, methanogenesis and the anaerobic oxidation of methane at Gulf of Mexico cold seeps. Geochimica Et Cosmochimica Acta, 2005, 69, 4267-4281.	1.6	204
168	Microbial methane turnover in different marine habitats. Palaeogeography, Palaeoclimatology, Palaeoecology, 2005, 227, 6-17.	1.0	86
169	Microfaunaâ€“Macrofauna Interaction in the Seafloor: Lessons from the Tubeworm. PLoS Biology, 2005, 3, e102.	2.6	17
170	Benthic metabolism and degradation of natural particulate organic matter in carbonate and silicate reef sands of the northern Red Sea. Marine Ecology - Progress Series, 2005, 298, 69-78.	0.9	72
171	Effects of Temperature and Pressure on Sulfate Reduction and Anaerobic Oxidation of Methane in Hydrothermal Sediments of Guaymas Basin. Applied and Environmental Microbiology, 2004, 70, 1231-1233.	1.4	150
172	The Benthos of Arctic Seas and its Role for the Organic Carbon Cycle at the Seafloor. , 2004, , 139-167.		38
173	The anaerobic oxidation of methane and sulfate reduction in sediments from Gulf of Mexico cold seeps. Chemical Geology, 2004, 205, 219-238.	1.4	466
174	Life at the edge of methane ice: microbial cycling of carbon and sulfur in Gulf of Mexico gas hydrates. Chemical Geology, 2004, 205, 239-251.	1.4	56
175	Hydrate Ridge: a natural laboratory for the study of microbial life fueled by methane from near-surface gas hydrates. Chemical Geology, 2004, 205, 291-310.	1.4	210
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