

Rudolf I Amann

List of Publications by Year in descending order

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365
papers

72,526
citations

434

131
h-index

641

256
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382
all docs

382
docs citations

382
times ranked

34129
citing authors

#	ARTICLE	IF	CITATIONS
1	Combination of 16S rRNA-targeted oligonucleotide probes with flow cytometry for analyzing mixed microbial populations. <i>Applied and Environmental Microbiology</i> , 1990, 56, 1919-1925.	1.4	3,720
2	A marine microbial consortium apparently mediating anaerobic oxidation of methane. <i>Nature</i> , 2000, 407, 623-626.	13.7	2,636
3	Fluorescent-oligonucleotide probing of whole cells for determinative, phylogenetic, and environmental studies in microbiology. <i>Journal of Bacteriology</i> , 1990, 172, 762-770.	1.0	2,200
4	Revealing structure and assembly cues for Arabidopsis root-inhabiting bacterial microbiota. <i>Nature</i> , 2012, 488, 91-95.	13.7	2,127
5	The Domain-specific Probe EUB338 is Insufficient for the Detection of all Bacteria: Development and Evaluation of a more Comprehensive Probe Set. <i>Systematic and Applied Microbiology</i> , 1999, 22, 434-444.	1.2	2,126
6	Uniting the classification of cultured and uncultured bacteria and archaea using 16S rRNA gene sequences. <i>Nature Reviews Microbiology</i> , 2014, 12, 635-645.	13.6	2,000
7	Phylogenetic Oligodeoxynucleotide Probes for the Major Subclasses of Proteobacteria: Problems and Solutions. <i>Systematic and Applied Microbiology</i> , 1992, 15, 593-600.	1.2	1,875
8	Substrate-Controlled Succession of Marine Bacterioplankton Populations Induced by a Phytoplankton Bloom. <i>Science</i> , 2012, 336, 608-611.	6.0	1,304
9	Sequence heterogeneities of genes encoding 16S rRNAs in <i>Paenibacillus polymyxa</i> detected by temperature gradient gel electrophoresis. <i>Journal of Bacteriology</i> , 1996, 178, 5636-5643.	1.0	1,203
10	Optimizing fluorescent in situ hybridization with rRNA-targeted oligonucleotide probes for flow cytometric identification of microorganisms. <i>Cytometry</i> , 1993, 14, 136-143.	1.8	1,142
11	Application of a suite of 16S rRNA-specific oligonucleotide probes designed to investigate bacteria of the phylum cytophaga-flavobacter-bacteroides in the natural environment. <i>Microbiology (United Kingdom)</i> , 1994, 134, 1047-1054.	0.784614	1,047
12	Fluorescence In Situ Hybridization and Catalyzed Reporter Deposition for the Identification of Marine Bacteria. <i>Applied and Environmental Microbiology</i> , 2002, 68, 3094-3101.	1.4	943
13	The species concept for prokaryotes. <i>FEMS Microbiology Reviews</i> , 2001, 25, 39-67.	3.9	887
14	The All-Species Living Tree project: A 16S rRNA-based phylogenetic tree of all sequenced type strains. <i>Systematic and Applied Microbiology</i> , 2008, 31, 241-250.	1.2	884
15	Bacterioplankton Compositions of Lakes and Oceans: a First Comparison Based on Fluorescence In Situ Hybridization. <i>Applied and Environmental Microbiology</i> , 1999, 65, 3721-3726.	1.4	746
16	The species concept for prokaryotes. <i>FEMS Microbiology Reviews</i> , 2001, 25, 39-67.	3.9	733
17	Probing activated sludge with oligonucleotides specific for proteobacteria: inadequacy of culture-dependent methods for describing microbial community structure. <i>Applied and Environmental Microbiology</i> , 1993, 59, 1520-1525.	1.4	711
18	Revising the nitrogen cycle in the Peruvian oxygen minimum zone. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 4752-4757.	3.3	677

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19	Microbial Reefs in the Black Sea Fueled by Anaerobic Oxidation of Methane. <i>Science</i> , 2002, 297, 1013-1015.	6.0	673
20	From The Cover: Massive nitrogen loss from the Benguela upwelling system through anaerobic ammonium oxidation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 6478-6483.	3.3	664
21	Single-cell identification in microbial communities by improved fluorescence in situ hybridization techniques. <i>Nature Reviews Microbiology</i> , 2008, 6, 339-348.	13.6	647
22	Phylogenetic analysis and in situ identification of bacteria in activated sludge. <i>Applied and Environmental Microbiology</i> , 1997, 63, 2884-2896.	1.4	641
23	Comparative 16S rRNA Analysis of Lake Bacterioplankton Reveals Globally Distributed Phylogenetic Clusters Including an Abundant Group of Actinobacteria. <i>Applied and Environmental Microbiology</i> , 2000, 66, 5053-5065.	1.4	593
24	Culturability and In Situ Abundance of Pelagic Bacteria from the North Sea. <i>Applied and Environmental Microbiology</i> , 2000, 66, 3044-3051.	1.4	577
25	Uncultivated microbes in need of their own taxonomy. <i>ISME Journal</i> , 2017, 11, 2399-2406.	4.4	572
26	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
27	Diversity and Distribution of Methanotrophic Archaea at Cold Seeps. <i>Applied and Environmental Microbiology</i> , 2005, 71, 467-479.	1.4	556
28	Development of an rRNA-targeted oligonucleotide probe specific for the genus <i>Acinetobacter</i> and its application for in situ monitoring in activated sludge. <i>Applied and Environmental Microbiology</i> , 1994, 60, 792-800.	1.4	516
29	Linking crenarchaeal and bacterial nitrification to anammox in the Black Sea. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 7104-7109.	3.3	493
30	In situ Identification of Ammonia-oxidizing Bacteria. <i>Systematic and Applied Microbiology</i> , 1995, 18, 251-264.	1.2	473
31	Past and future species definitions for Bacteria and Archaea. <i>Systematic and Applied Microbiology</i> , 2015, 38, 209-216.	1.2	470
32	Monitoring a widespread bacterial group: in situ detection of planctomycetes with 16S rRNA-targeted probes. <i>Microbiology (United Kingdom)</i> , 1998, 144, 3257-3266.	0.7	464
33	Complete genome sequence of the marine planctomycete <i>Pirellulasp.</i> strain 1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 8298-8303.	3.3	460
34	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
35	Update of the All-Species Living Tree Project based on 16S and 23S rRNA sequence analyses. <i>Systematic and Applied Microbiology</i> , 2010, 33, 291-299.	1.2	441
36	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

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37	Recurring patterns in bacterioplankton dynamics during coastal spring algae blooms. <i>ELife</i> , 2016, 5, e11888.	2.8	414
38	Microbial Ecology of an Extreme Acidic Environment, the Tinto River. <i>Applied and Environmental Microbiology</i> , 2003, 69, 4853-4865.	1.4	403
39	<i>Salinibacter ruber</i> gen. nov., sp. nov., a novel, extremely halophilic member of the Bacteria from saltern crystallizer ponds.. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2002, 52, 485-491.	0.8	401
40	In situ analysis of nitrifying bacteria in sewage treatment plants. <i>Water Science and Technology</i> , 1996, 34, 237-244.	1.2	396
41	Symbiosis insights through metagenomic analysis of a microbial consortium. <i>Nature</i> , 2006, 443, 950-955.	13.7	396
42	Identification in situ and phylogeny of uncultured bacterial endosymbionts. <i>Nature</i> , 1991, 351, 161-164.	13.7	393
43	A single-cell view on the ecophysiology of anaerobic phototrophic bacteria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 17861-17866.	3.3	388
44	Microbial Community Composition of Wadden Sea Sediments as Revealed by Fluorescence In Situ Hybridization. <i>Applied and Environmental Microbiology</i> , 1998, 64, 2691-2696.	1.4	384
45	Fluorescence in situ hybridization (FISH) with rRNA-targeted oligonucleotide probes. <i>Methods in Microbiology</i> , 2001, , 207-226.	0.4	382
46	High Bacterial Diversity in Permanently Cold Marine Sediments. <i>Applied and Environmental Microbiology</i> , 1999, 65, 3982-3989.	1.4	378
47	Diversity and Structure of Bacterial Communities in Arctic versus Antarctic Pack Ice. <i>Applied and Environmental Microbiology</i> , 2003, 69, 6610-6619.	1.4	364
48	Flow Cytometric Analysis of the In Situ Accessibility of <i>Escherichia coli</i> 16S rRNA for Fluorescently Labeled Oligonucleotide Probes. <i>Applied and Environmental Microbiology</i> , 1998, 64, 4973-4982.	1.4	348
49	A conspicuous nickel protein in microbial mats that oxidize methane anaerobically. <i>Nature</i> , 2003, 426, 878-881.	13.7	344
50	Dual staining of natural bacterioplankton with 4',6-diamidino-2-phenylindole and fluorescent oligonucleotide probes targeting kingdom-level 16S rRNA sequences. <i>Applied and Environmental Microbiology</i> , 1992, 58, 2158-2163.	1.4	342
51	Changes in Bacterial Community Composition and Dynamics and Viral Mortality Rates Associated with Enhanced Flagellate Grazing in a Mesoeutrophic Reservoir. <i>Applied and Environmental Microbiology</i> , 2001, 67, 2723-2733.	1.4	340
52	Structure and function of a nitrifying biofilm as determined by in situ hybridization and the use of microelectrodes. <i>Applied and Environmental Microbiology</i> , 1996, 62, 4641-4647.	1.4	339
53	Diversity and Abundance of Aerobic and Anaerobic Methane Oxidizers at the Haakon Mosby Mud Volcano, Barents Sea. <i>Applied and Environmental Microbiology</i> , 2007, 73, 3348-3362.	1.4	338
54	Whole genome analysis of the marine Bacteroidetes 'Gramella forsetii' reveals adaptations to degradation of polymeric organic matter. <i>Environmental Microbiology</i> , 2006, 8, 2201-2213.	1.8	334

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55	The identification of microorganisms by fluorescence in situ hybridisation. <i>Current Opinion in Biotechnology</i> , 2001, 12, 231-236.	3.3	325
56	Resuscitation of viable but nonculturable <i>Legionella pneumophila</i> Philadelphia JR32 by <i>Acanthamoeba castellanii</i> . <i>Applied and Environmental Microbiology</i> , 1997, 63, 2047-2053.	1.4	325
57	Application of tetranucleotide frequencies for the assignment of genomic fragments. <i>Environmental Microbiology</i> , 2004, 6, 938-947.	1.8	319
58	Specific Oligonucleotide Probes for in situ Detection of a Major Group of Gram-positive Bacteria with low DNA G+C Content. <i>Systematic and Applied Microbiology</i> , 1999, 22, 186-196.	1.2	309
59	Community Structure and Activity Dynamics of Nitrifying Bacteria in a Phosphate-Removing Biofilm. <i>Applied and Environmental Microbiology</i> , 2001, 67, 1351-1362.	1.4	297
60	Detoxification of sulphidic African shelf waters by blooming chemolithotrophs. <i>Nature</i> , 2009, 457, 581-584.	13.7	297
61	Extremely Halophilic Bacteria in Crystallizer Ponds from Solar Salterns. <i>Applied and Environmental Microbiology</i> , 2000, 66, 3052-3057.	1.4	294
62	In situ visualization of high genetic diversity in a natural microbial community. <i>Journal of Bacteriology</i> , 1996, 178, 3496-3500.	1.0	287
63	An In Situ Hybridization Protocol for Detection and Identification of Planktonic Bacteria. <i>Systematic and Applied Microbiology</i> , 1996, 19, 403-406.	1.2	281
64	Archaea of the Miscellaneous Crenarchaeotal Group are abundant, diverse and widespread in marine sediments. <i>ISME Journal</i> , 2012, 6, 1949-1965.	4.4	281
65	An Improved Protocol for Quantification of Freshwater Actinobacteria by Fluorescence In Situ Hybridization. <i>Applied and Environmental Microbiology</i> , 2003, 69, 2928-2935.	1.4	279
66	In situ identification of micro-organisms by whole cell hybridization with rRNA-targeted nucleic acid probes. , 1995, , 331-345.		278
67	Ribosomal RNA-targeted nucleic acid probes for studies in microbial ecology. <i>FEMS Microbiology Reviews</i> , 2000, 24, 555-565.	3.9	276
68	Combined Use of 16S Ribosomal DNA and 16S rRNA To Study the Bacterial Community of Polychlorinated Biphenyl-Polluted Soil. <i>Applied and Environmental Microbiology</i> , 2001, 67, 1874-1884.	1.4	276
69	In situ identification of bacteria in drinking water and adjoining biofilms by hybridization with 16S and 23S rRNA-directed fluorescent oligonucleotide probes. <i>Applied and Environmental Microbiology</i> , 1993, 59, 2293-2298.	1.4	264
70	Seasonal Community and Population Dynamics of Pelagic Bacteria and Archaea in a High Mountain Lake. <i>Applied and Environmental Microbiology</i> , 1998, 64, 4299-4306.	1.4	263
71	High Rate of Uptake of Organic Nitrogen Compounds by <i>Prochlorococcus</i> Cyanobacteria as a Key to Their Dominance in Oligotrophic Oceanic Waters. <i>Applied and Environmental Microbiology</i> , 2003, 69, 1299-1304.	1.4	262
72	Identification and in situ Detection of Gram-negative Filamentous Bacteria in Activated Sludge. <i>Systematic and Applied Microbiology</i> , 1994, 17, 405-417.	1.2	261

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73	Community Structure, Cellular rRNA Content, and Activity of Sulfate-Reducing Bacteria in Marine Arctic Sediments. <i>Applied and Environmental Microbiology</i> , 2000, 66, 3592-3602.	1.4	259
74	Unlabeled Helper Oligonucleotides Increase the In Situ Accessibility to 16S rRNA of Fluorescently Labeled Oligonucleotide Probes. <i>Applied and Environmental Microbiology</i> , 2000, 66, 3603-3607.	1.4	259
75	Activity, Distribution, and Diversity of Sulfate Reducers and Other Bacteria in Sediments above Gas Hydrate (Cascadia Margin, Oregon). <i>Geomicrobiology Journal</i> , 2003, 20, 269-294.	1.0	254
76	Hydrogen is an energy source for hydrothermal vent symbioses. <i>Nature</i> , 2011, 476, 176-180.	13.7	251
77	A microdiversity study of anammox bacteria reveals a novel <i>Candidatus</i> Scalindua phylotype in marine oxygen minimum zones. <i>Environmental Microbiology</i> , 2008, 10, 3106-3119.	1.8	250
78	Dominating Role of an Unusual Magnetotactic Bacterium in the Microaerobic Zone of a Freshwater Sediment. <i>Applied and Environmental Microbiology</i> , 1993, 59, 2397-2403.	1.4	247
79	The metagenome of the marine anammox bacterium <i>Candidatus</i> Scalindua profunda™ illustrates the versatility of this globally important nitrogen cycle bacterium. <i>Environmental Microbiology</i> , 2013, 15, 1275-1289.	1.8	246
80	In Situ Localization of Azospirillum brasilense in the Rhizosphere of Wheat with Fluorescently Labeled, rRNA-Targeted Oligonucleotide Probes and Scanning Confocal Laser Microscopy. <i>Applied and Environmental Microbiology</i> , 1995, 61, 1013-1019.	1.4	245
81	Community analysis of the bacterial assemblages in the winter cover and pelagic layers of a high mountain lake by in situ hybridization. <i>Applied and Environmental Microbiology</i> , 1996, 62, 2138-2144.	1.4	244
82	Linking the composition of bacterioplankton to rapid turnover of dissolved dimethylsulphoniopropionate in an algal bloom in the North Sea. <i>Environmental Microbiology</i> , 2001, 3, 304-311.	1.8	243
83	Succession of Pelagic Marine Bacteria during Enrichment: a Close Look at Cultivation-Induced Shifts. <i>Applied and Environmental Microbiology</i> , 2000, 66, 4634-4640.	1.4	241
84	Microenvironments and distribution of nitrifying bacteria in a membrane-bound biofilm. <i>Environmental Microbiology</i> , 2000, 2, 680-686.	1.8	239
85	Isolation of Novel Pelagic Bacteria from the German Bight and Their Seasonal Contributions to Surface Picoplankton. <i>Applied and Environmental Microbiology</i> , 2001, 67, 5134-5142.	1.4	238
86	Actinobacterial 16S rRNA genes from freshwater habitats cluster in four distinct lineages. <i>Environmental Microbiology</i> , 2004, 6, 242-253.	1.8	238
87	Morphological and Compositional Changes in a Planktonic Bacterial Community in Response to Enhanced Protozoan Grazing. <i>Applied and Environmental Microbiology</i> , 1999, 65, 1241-1250.	1.4	238
88	Obligate intracellular bacterial parasites of acanthamoebae related to Chlamydia spp. <i>Applied and Environmental Microbiology</i> , 1997, 63, 115-121.	1.4	236
89	The Genome of the Alga-Associated Marine Flavobacterium Formosa agariphila KMM 3901 ^T Reveals a Broad Potential for Degradation of Algal Polysaccharides. <i>Applied and Environmental Microbiology</i> , 2013, 79, 6813-6822.	1.4	222
90	Metagenome and mRNA expression analyses of anaerobic methanotrophic archaea of the ANME-1 group. <i>Environmental Microbiology</i> , 2010, 12, 422-439.	1.8	221

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91	Potential Interactions of Particle-Associated Anammox Bacteria with Bacterial and Archaeal Partners in the Namibian Upwelling System. <i>Applied and Environmental Microbiology</i> , 2007, 73, 4648-4657.	1.4	220
92	Analysis of bacterial community structure in bulk soil by in situ hybridization. <i>Archives of Microbiology</i> , 1997, 168, 185-192.	1.0	219
93	Latitudinal distribution of prokaryotic picoplankton populations in the Atlantic Ocean. <i>Environmental Microbiology</i> , 2009, 11, 2078-2093.	1.8	219
94	Revised phylogeny of Bacteroidetes and proposal of sixteen new taxa and two new combinations including <i>Rhodothermaeaota</i> phyl. nov.. <i>Systematic and Applied Microbiology</i> , 2016, 39, 281-296.	1.2	214
95	Quantitative Molecular Analysis of the Microbial Community in Marine Arctic Sediments (Svalbard). <i>Applied and Environmental Microbiology</i> , 2001, 67, 387-395.	1.4	207
96	In situ characterization of the microbial consortia active in two wastewater treatment plants. <i>Water Research</i> , 1994, 28, 1715-1723.	5.3	196
97	Endosymbiotic sulphate-reducing and sulphide-oxidizing bacteria in an oligochaete worm. <i>Nature</i> , 2001, 411, 298-302.	13.7	196
98	Comparison of Cellular and Biomass Specific Activities of Dominant Bacterioplankton Groups in Stratified Waters of the Celtic Sea. <i>Applied and Environmental Microbiology</i> , 2001, 67, 5210-5218.	1.4	191
99	Genomic Encyclopedia of Bacteria and Archaea: Sequencing a Myriad of Type Strains. <i>PLoS Biology</i> , 2014, 12, e1001920.	2.6	190
100	Comparison of Fluorescently Labeled Oligonucleotide and Polynucleotide Probes for the Detection of Pelagic Marine Bacteria and Archaea. <i>Applied and Environmental Microbiology</i> , 2002, 68, 661-667.	1.4	189
101	Thermophilic anaerobic oxidation of methane by marine microbial consortia. <i>ISME Journal</i> , 2011, 5, 1946-1956.	4.4	185
102	Diverse sulfate-reducing bacteria of the <i>Desulfosarcina/Desulfococcus</i> clade are the key alkane degraders at marine seeps. <i>ISME Journal</i> , 2014, 8, 2029-2044.	4.4	182
103	Niches of two polysaccharide-degrading <i>Polaribacter</i> isolates from the North Sea during a spring diatom bloom. <i>ISME Journal</i> , 2015, 9, 1410-1422.	4.4	182
104	Characterization of bacterial communities from activated sludge: Culture-dependent numerical identification versus in situ identification using group- and genus-specific rRNA-targeted oligonucleotide probes. <i>Microbial Ecology</i> , 1996, 32, 101-21.	1.4	179
105	Optimization Strategies for DNA Microarray-Based Detection of Bacteria with 16S rRNA-Targeting Oligonucleotide Probes. <i>Applied and Environmental Microbiology</i> , 2003, 69, 1397-1407.	1.4	179
106	Identification of novel Archaea in bacterioplankton of a boreal forest lake by phylogenetic analysis and fluorescent in situ hybridization1. <i>FEMS Microbiology Ecology</i> , 2000, 34, 45-56.	1.3	178
107	Fluorescence in situ hybridization analysis of the prokaryotic community inhabiting crystallizer ponds. <i>Environmental Microbiology</i> , 1999, 1, 517-523.	1.8	177
108	Simultaneous Fluorescence In Situ Hybridization of mRNA and rRNA in Environmental Bacteria. <i>Applied and Environmental Microbiology</i> , 2004, 70, 5426-5433.	1.4	177

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109	Functional characterization of polysaccharide utilization loci in the marine <i>Bacteroidetes</i> <i>Gramella forsetii</i> ™ KT0803. <i>ISME Journal</i> , 2014, 8, 1492-1502.	4.4	177
110	High local and global diversity of Flavobacteria in marine plankton. <i>Environmental Microbiology</i> , 2007, 9, 1253-1266.	1.8	176
111	Determining the bacterial cell biology of Planctomycetes. <i>Nature Communications</i> , 2017, 8, 14853.	5.8	175
112	Fluorescently labelled, rRNA-targeted oligonucleotide probes in the study of microbial ecology. <i>Molecular Ecology</i> , 1995, 4, 543-554.	2.0	174
113	Niche partitioning of diverse sulfur-oxidizing bacteria at hydrothermal vents. <i>ISME Journal</i> , 2017, 11, 1545-1558.	4.4	168
114	An improved fluorescence in situ hybridization protocol for the identification of bacteria and archaea in marine sediments. <i>FEMS Microbiology Ecology</i> , 2004, 50, 203-213.	1.3	165
115	Cultivation and functional characterization of 79 planctomycetes uncovers their unique biology. <i>Nature Microbiology</i> , 2020, 5, 126-140.	5.9	164
116	Microbial Manganese and Sulfate Reduction in Black Sea Shelf Sediments. <i>Applied and Environmental Microbiology</i> , 2000, 66, 2888-2897.	1.4	161
117	Development and Use of Fluorescent In Situ Hybridization Probes for the Detection and Identification of <i>Microthrix parvicella</i> in Activated Sludge. <i>Systematic and Applied Microbiology</i> , 1997, 20, 310-318.	1.2	158
118	Changes in community composition during dilution cultures of marine bacterioplankton as assessed by flow cytometric and molecular biological techniques. <i>Environmental Microbiology</i> , 2000, 2, 191-201.	1.8	158
119	Closely related <i>Prochlorococcus</i> genotypes show remarkably different depth distributions in two oceanic regions as revealed by in situ hybridization using 16S rRNA-targeted oligonucleotides The GenBank accession numbers for the sequences reported in this paper are AF311217 (RCC278, EQPAC1), AF311218 (RCC277, NATL1MIT), AF311219 (RCC280, NATL2B), AF311220 (RCC264, TAK9803-2), AF311291 (WH7803), AF311292 (WH8018) and AF311293 (WH8103). <i>Microbiology (United Kingdom)</i> , 2001, 147, 1731-1744.	0.7	158
120	Dual Symbiosis in a <i>Bathymodiolus</i> sp. Mussel from a Methane Seep on the Gabon Continental Margin (Southeast Atlantic): 16S rRNA Phylogeny and Distribution of the Symbionts in Gills. <i>Applied and Environmental Microbiology</i> , 2005, 71, 1694-1700.	1.4	155
121	Identification of the dominant sulfate-reducing bacterial partner of anaerobic methanotrophs of the ANME-2 clade. <i>Environmental Microbiology</i> , 2010, 12, 2327-2340.	1.8	153
122	In Situ Accessibility of Small-Subunit rRNA of Members of the Domains Bacteria, Archaea, and Eucarya to Cy3-Labeled Oligonucleotide Probes. <i>Applied and Environmental Microbiology</i> , 2003, 69, 1748-1758.	1.4	152
123	β - and γ - Proteobacteria Control the Consumption and Release of Amino Acids on Lake Snow Aggregates. <i>Applied and Environmental Microbiology</i> , 2001, 67, 632-645.	1.4	151
124	Insights into the Genome of Large Sulfur Bacteria Revealed by Analysis of Single Filaments. <i>PLoS Biology</i> , 2007, 5, e230.	2.6	151
125	Flow Sorting of Marine Bacterioplankton after Fluorescence In Situ Hybridization. <i>Applied and Environmental Microbiology</i> , 2004, 70, 6210-6219.	1.4	149
126	An alternative polysaccharide uptake mechanism of marine bacteria. <i>ISME Journal</i> , 2017, 11, 1640-1650.	4.4	149

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127	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
128	Comparison of bacterial communities on limnic versus coastal marine particles reveals profound differences in colonization. <i>Environmental Microbiology</i> , 2015, 17, 3500-3514.	1.8	148
129	Release LTPs104 of the All-Species Living Tree. <i>Systematic and Applied Microbiology</i> , 2011, 34, 169-170.	1.2	146
130	Structure and activity of multiple nitrifying bacterial populations co-existing in a biofilm. <i>Environmental Microbiology</i> , 2003, 5, 355-369.	1.8	145
131	Distinct flavobacterial communities in contrasting water masses of the North Atlantic Ocean. <i>ISME Journal</i> , 2010, 4, 472-487.	4.4	143
132	Diversity and vertical distribution of cultured and uncultured Deltaproteobacteria in an intertidal mud flat of the Wadden Sea. <i>Environmental Microbiology</i> , 2005, 7, 405-418.	1.8	142
133	Phylogenetic Diversity and Identification of Nonculturable Magnetotactic Bacteria. <i>Systematic and Applied Microbiology</i> , 1992, 15, 116-122.	1.2	141
134	Polysaccharide utilization loci of North Sea <i>Flavobacteriia</i> as basis for using SusC/D-protein expression for predicting major phytoplankton glycans. <i>ISME Journal</i> , 2019, 13, 76-91.	4.4	139
135	Genomic content of uncultured <i>Bacteroidetes</i> from contrasting oceanic provinces in the North Atlantic Ocean. <i>Environmental Microbiology</i> , 2012, 14, 52-66.	1.8	137
136	Novel groups of <i>Gammaproteobacteria</i> catalyse sulfur oxidation and carbon fixation in a coastal, intertidal sediment. <i>Environmental Microbiology</i> , 2011, 13, 758-774.	1.8	136
137	Recurrent patterns of microdiversity in a temperate coastal marine environment. <i>ISME Journal</i> , 2018, 12, 237-252.	4.4	135
138	A single-cell sequencing approach to the classification of large, vacuolated sulfur bacteria. <i>Systematic and Applied Microbiology</i> , 2011, 34, 243-259.	1.2	132
139	Habitat and taxon as driving forces of carbohydrate catabolism in marine heterotrophic bacteria: example of the model algae-associated bacterium <i>Zobellia galactanivorans</i> Dsij ^T . <i>Environmental Microbiology</i> , 2016, 18, 4610-4627.	1.8	131
140	Diversity Among Fibrobacter Isolates: Towards a Phylogenetic Classification. <i>Systematic and Applied Microbiology</i> , 1992, 15, 23-31.	1.2	130
141	Distribution and <i>in situ</i> abundance of sulfate-reducing bacteria in diverse marine hydrocarbon seep sediments. <i>Environmental Microbiology</i> , 2012, 14, 2689-2710.	1.8	128
142	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
143	In Situ Identification of Cyanobacteria with Horseradish Peroxidase-Labeled, rRNA-Targeted Oligonucleotide Probes. <i>Applied and Environmental Microbiology</i> , 1999, 65, 1259-1267.	1.4	126
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