Michael Wagner

List of Publications by Year
in descending order

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305	59,041	668	1109
papers	citations	122 h-index	231 g-index

368	368	368	32539
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The Domain-specific Probe EUB338 is Insufficient for the Detection of all Bacteria: Development and Evaluation of a more Comprehensive Probe Set. Systematic and Applied Microbiology, 1999, 22, 434-444.	1.2	2,126
2	Complete nitrification by Nitrospira bacteria. Nature, 2015, 528, 504-509.	13.7	1,878
3	Phylogenetic Oligodeoxynucleotide Probes for the Major Subclasses of Proteobacteria: Problems and Solutions. Systematic and Applied Microbiology, 1992, 15, 593-600.	1.2	1,875
4	Sponge-Associated Microorganisms: Evolution, Ecology, and Biotechnological Potential. Microbiology and Molecular Biology Reviews, 2007, 71, 295-347.	2.9	1,254
5	Deciphering the evolution and metabolism of an anammox bacterium from a community genome. Nature, 2006, 440, 790-794.	13.7	1,075
6	Phylogeny of All Recognized Species of Ammonia Oxidizers Based on Comparative 16S rRNA and amoA Sequence Analysis: Implications for Molecular Diversity Surveys. Applied and Environmental Microbiology, 2000, 66, 5368-5382.	1.4	1,013
7	Microbiome definition re-visited: old concepts and new challenges. Microbiome, 2020, 8, 103.	4.9	903
8	Proposal to reclassify the proteobacterial classes Deltaproteobacteria and Oligoflexia, and the phylum Thermodesulfobacteria into four phyla reflecting major functional capabilities. International Journal of Systematic and Evolutionary Microbiology, 2020, 70, 5972-6016.	0.8	830
9	Nitrososphaera viennensis , an ammonia oxidizing archaeon from soil. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 8420-8425.	3.3	810
10	Phylogenetic probes for analyzing abundance and spatial organization of nitrifying bacteria. Applied and Environmental Microbiology, 1996, 62, 2156-2162.	1.4	794
11	A Nitrospira metagenome illuminates the physiology and evolution of globally important nitrite-oxidizing bacteria. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 13479-13484.	3.3	732
12	In Situ Characterization of Nitrospira -Like Nitrite-Oxidizing Bacteria Active in Wastewater Treatment Plants. Applied and Environmental Microbiology, 2001, 67, 5273-5284.	1.4	718
13	Combined Molecular and Conventional Analyses of Nitrifying Bacterium Diversity in Activated Sludge: Nitrosococcus mobilis and Nitrospira -Like Bacteria as Dominant Populations. Applied and Environmental Microbiology, 1998, 64, 3042-3051.	1.4	714
14	Probing activated sludge with oligonucleotides specific for proteobacteria: inadequacy of culture-dependent methods for describing microbial community structure. Applied and Environmental Microbiology, 1993, 59, 1520-1525.	1.4	711
15	Phylogeny of Dissimilatory Sulfite Reductases Supports an Early Origin of Sulfate Respiration. Journal of Bacteriology, 1998, 180, 2975-2982.	1.0	635
16	Combination of Fluorescent In Situ Hybridization and Microautoradiographyâ€"a New Tool for Structure-Function Analyses in Microbial Ecology. Applied and Environmental Microbiology, 1999, 65, 1289-1297.	1.4	635
17	A moderately thermophilic ammonia-oxidizing crenarchaeote from a hot spring. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 2134-2139.	3.3	626
18	Molecular Evidence for Genus Level Diversity of Bacteria Capable of Catalyzing Anaerobic Ammonium Oxidation. Systematic and Applied Microbiology, 2000, 23, 93-106.	1.2	625

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19	A New Perspective on Microbes Formerly Known as Nitrite-Oxidizing Bacteria. Trends in Microbiology, 2016, 24, 699-712.	3.5	625
20	Oligonucleotide Microarray for 16S rRNA Gene-Based Detection of All Recognized Lineages of Sulfate-Reducing Prokaryotes in the Environment. Applied and Environmental Microbiology, 2002, 68, 5064-5081.	1.4	622
21	Molecular Evidence for a Uniform Microbial Community in Sponges from Different Oceans. Applied and Environmental Microbiology, 2002, 68, 4431-4440.	1.4	621
22	Kinetic analysis of a complete nitrifier reveals an oligotrophic lifestyle. Nature, 2017, 549, 269-272.	13.7	588
23	High-fat diet alters gut microbiota physiology in mice. ISME Journal, 2014, 8, 295-308.	4.4	583
24	daime, a novel image analysis program for microbial ecology and biofilm research. Environmental Microbiology, 2006, 8, 200-213.	1.8	565
25	Microbiology and application of the anaerobic ammonium oxidation (â€˜anammoxâ€™) process. Current Opinion in Biotechnology, 2001, 12, 283-288.	3.3	534
26	In situ probing of Gram-positive bacteria with high DNA G + C content using 23S rRNA-targeted oligonucleotides. Microbiology (United Kingdom), 1994, 140, 2849-2858.	0.7	525
27	Microbial diversity and the genetic nature of microbial species. Nature Reviews Microbiology, 2008, 6, 431-440.	13.6	521
28	Development of an rRNA-targeted oligonucleotide probe specific for the genus Acinetobacter and its application for in situ monitoring in activated sludge. Applied and Environmental Microbiology, 1994, 60, 792-800.	1.4	516
29	Barcoded Primers Used in Multiplex Amplicon Pyrosequencing Bias Amplification. Applied and Environmental Microbiology, 2011, 77, 7846-7849.	1.4	514
30	The Thaumarchaeota: an emerging view of their phylogeny and ecophysiology. Current Opinion in Microbiology, 2011, 14, 300-306.	2.3	511
31	Zero-valent sulphur is a key intermediate in marine methane oxidation. Nature, 2012, 491, 541-546.	13.7	498
32	Global diversity and biogeography of bacterial communities in wastewater treatment plants. Nature Microbiology, 2019, 4, 1183-1195.	5.9	491
33	Bacterial community composition and function in sewage treatment systems. Current Opinion in Biotechnology, 2002, 13, 218-227.	3.3	488
34	amoAâ€based consensus phylogeny of ammoniaâ€oxidizing archaea and deep sequencing of amoA genes from soils of four different geographic regions. Environmental Microbiology, 2012, 14, 525-539.	1.8	485
35	In situ Identification of Ammonia-oxidizing Bacteria. Systematic and Applied Microbiology, 1995, 18, 251-264.	1.2	473
36	Amoebae as Training Grounds for Intracellular Bacterial Pathogens. Applied and Environmental Microbiology, 2005, 71, 20-28.	1.4	452

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37	Identification and Activities In Situ of Nitrosospira and Nitrospira spp. as Dominant Populations in a Nitrifying Fluidized Bed Reactor. Applied and Environmental Microbiology, 1998, 64, 3480-3485.	1.4	448
38	Expanded metabolic versatility of ubiquitous nitrite-oxidizing bacteria from the genus Nitrospira. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 11371-11376.	3.3	439
39	Distinct gene set in two different lineages of ammonia-oxidizing archaea supports the phylum Thaumarchaeota. Trends in Microbiology, 2010, 18, 331-340.	3.5	431
40	probeBase--an online resource for rRNA-targeted oligonucleotide probes: new features 2007. Nucleic Acids Research, 2007, 35, D800-D804.	6.5	421
41	The Planctomycetes, Verrucomicrobia, Chlamydiae and sister phyla comprise a superphylum with biotechnological and medical relevance. Current Opinion in Biotechnology, 2006, 17, 241-249.	3.3	405
42	In situ analysis of nitrifying bacteria in sewage treatment plants. Water Science and Technology, 1996, 34, 237-244.	1.2	396
43	Deep sequencing reveals exceptional diversity and modes of transmission for bacterial sponge symbionts. Environmental Microbiology, 2010, 12, 2070-2082.	1.8	394
44	Illuminating the Evolutionary History of Chlamydiae. Science, 2004, 304, 728-730.	6.0	373
45	Tracking heavy water (D ₂ O) incorporation for identifying and sorting active microbial cells. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E194-203.	3.3	359
46	probeBase: an online resource for rRNA-targeted oligonucleotide probes. Nucleic Acids Research, 2003, 31, 514-516.	6.5	345
47	Nitrification expanded: discovery, physiology and genomics of a nitrite-oxidizing bacterium from the phylum Chloroflexi. ISME Journal, 2012, 6, 2245-2256.	4.4	345
48	Microbial community composition and function in wastewater treatment plants. Antonie Van Leeuwenhoek, 2002, 81, 665-680.	0.7	341
49	The Microbial Community Composition of a Nitrifying-Denitrifying Activated Sludge from an Industrial Sewage Treatment Plant Analyzed by the Full-Cycle rRNA Approach. Systematic and Applied Microbiology, 2002, 25, 84-99.	1.2	338
50	Fluorescence in situ hybridisation for the identification and characterisation of prokaryotes. Current Opinion in Microbiology, 2003, 6, 302-309.	2.3	335
51	The genome of the ammoniaâ€oxidizing <scp>C</scp>andidatus<scp>N</scp>itrososphaera gargensis: insights into metabolic versatility and environmental adaptations. Environmental Microbiology, 2012, 14, 3122-3145.	1.8	332
52	Biomarkers for In Situ Detection of Anaerobic Ammonium-Oxidizing (Anammox) Bacteria. Applied and Environmental Microbiology, 2005, 71, 1677-1684.	1.4	325
53	Isolation and phylogenetic analysis of bacteria with antimicrobial activities from the Mediterranean sponges Aplysina aerophoba and Aplysina cavernicola. FEMS Microbiology Ecology, 2001, 35, 305-312.	1.3	321
54	AmoA-Targeted Polymerase Chain Reaction Primers for the Specific Detection and Quantification of Comammox Nitrospira in the Environment. Frontiers in Microbiology, 2017, 8, 1508.	1.5	313

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55	Multiple Lateral Transfers of Dissimilatory Sulfite Reductase Genes between Major Lineages of Sulfate-Reducing Prokaryotes. Journal of Bacteriology, 2001, 183, 6028-6035.	1.0	309
56	Raman-FISH: combining stable-isotope Raman spectroscopy and fluorescence in situ hybridization for the single cell analysis of identity and function. Environmental Microbiology, 2007, 9, 1878-1889.	1.8	305
57	A â€˜rare biosphereâ€™ microorganism contributes to sulfate reduction in a peatland. ISME Journal, 2010, 4, 1591-1602.	4.4	303
58	Community Structure and Activity Dynamics of Nitrifying Bacteria in a Phosphate-Removing Biofilm. Applied and Environmental Microbiology, 2001, 67, 1351-1362.	1.4	297
59	Phylotype-level 16S rRNA analysis reveals new bacterial indicators of health state in acute murine colitis. ISME Journal, 2012, 6, 2091-2106.	4.4	291
60	In situ visualization of high genetic diversity in a natural microbial community. Journal of Bacteriology, 1996, 178, 3496-3500.	1.0	287
61	Biodegradation of synthetic polymers in soils: Tracking carbon into CO ₂ and microbial biomass. Science Advances, 2018, 4, eaas9024.	4.7	284
62	<scp>NxrB</scp> encoding the beta subunit of nitrite oxidoreductase as functional and phylogenetic marker for nitriteâ€oxidizing <scp>N</scp>itrospira. Environmental Microbiology, 2014, 16, 3055-3071.	1.8	280
63	Discovery of the Novel Candidate Phylum â€œPoribacteriaâ€•in Marine Sponges. Applied and Environmental Microbiology, 2004, 70, 3724-3732.	1.4	275
64	Thaumarchaeotes abundant in refinery nitrifying sludges express amoA but are not obligate autotrophic ammonia oxidizers. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 16771-16776.	3.3	272
65	Ecological study of a bioaugmentation failure. Environmental Microbiology, 2000, 2, 179-190.	1.8	271
66	Single-Cell Ecophysiology of Microbes as Revealed by Raman Microspectroscopy or Secondary Ion Mass Spectrometry Imaging. Annual Review of Microbiology, 2009, 63, 411-429.	2.9	270
67	Sulfate-reducing microorganisms in wetlands â€“ fameless actors in carbon cycling and climate change. Frontiers in Microbiology, 2012, 3, 72.	1.5	264
68	Identification and in situ Detection of Gram-negative Filamentous Bacteria in Activated Sludge. Systematic and Applied Microbiology, 1994, 17, 405-417.	1.2	261
69	16S rRNA and amoA-based phylogeny of 12 novel betaproteobacterial ammonia-oxidizing isolates: extension of the dataset and proposal of a new lineage within the nitrosomonads. International Journal of Systematic and Evolutionary Microbiology, 2003, 53, 1485-1494.	0.8	257
70	Who eats what, where and when? Isotope-labelling experiments are coming of age. ISME Journal, 2007, 1, 103-110.	4.4	239
71	Giant viruses with an expanded complement of translation system components. Science, 2017, 356, 82-85.	6.0	234
72	Diversity and abundance of sulfate-reducing microorganisms in the sulfate and methane zones of a marine sediment, Black Sea. Environmental Microbiology, 2007, 9, 131-142.	1.8	233

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73	16S rRNA Gene-Based Oligonucleotide Microarray for Environmental Monitoring of the Betaproteobacterial Order â€œ Rhodocyclales â€• Applied and Environmental Microbiology, 2005, 71, 1373-1386.	1.4	231
74	Cyanate as an energy source for nitrifiers. Nature, 2015, 524, 105-108.	13.7	231
75	Cohnâ€™sCrenothrixis a filamentous methane oxidizer with an unusual methane monooxygenase. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 2363-2367.	3.3	229
76	16S-23S rDNA intergenic spacer and 23S rDNA of anaerobic ammonium-oxidizing bacteria: implications for phylogeny and in situ detection. Environmental Microbiology, 2001, 3, 450-459.	1.8	227
77	The Isotope Array, a New Tool That Employs Substrate-Mediated Labeling of rRNA for Determination of Microbial Community Structure and Function. Applied and Environmental Microbiology, 2003, 69, 6875-6887.	1.4	223
78	New Insights into Metabolic Properties of Marine Bacteria Encoding Proteorhodopsins. PLoS Biology, 2005, 3, e273.	2.6	218
79	Nitrifying and heterotrophic population dynamics in biofilm reactors: effects of hydraulic retention time and the presence of organic carbon. Water Research, 2002, 36, 469-481.	5.3	217
80	Wastewater treatment: a model system for microbial ecology. Trends in Biotechnology, 2006, 24, 483-489.	4.9	216
81	Use of Stable-Isotope Probing, Full-Cycle rRNA Analysis, and Fluorescence In Situ Hybridization-Microautoradiography To Study a Methanol-Fed Denitrifying Microbial Community. Applied and Environmental Microbiology, 2004, 70, 588-596.	1.4	213
82	Host-compound foraging by intestinal microbiota revealed by single-cell stable isotope probing. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 4720-4725.	3.3	210
83	Nitrite concentration influences the population structure of Nitrospira-like bacteria. Environmental Microbiology, 2006, 8, 1487-1495.	1.8	209
84	Identification of Some of the Major Groups of Bacteria in Efficient and Nonefficient Biological Phosphorus Removal Activated Sludge Systems. Applied and Environmental Microbiology, 1999, 65, 4077-4084.	1.4	202
85	In situ characterization of the microbial consortia active in two wastewater treatment plants. Water Research, 1994, 28, 1715-1723.	5.3	196
86	Endosymbiotic sulphate-reducing and sulphide-oxidizing bacteria in an oligochaete worm. Nature, 2001, 411, 298-302.	13.7	196
87	Genomic Encyclopedia of Bacteria and Archaea: Sequencing a Myriad of Type Strains. PLoS Biology, 2014, 12, e1001920.	2.6	190
88	Novel bacterial endosymbionts of Acanthamoeba spp. related to the Paramecium caudatum symbiont Caedibacter caryophilus. Environmental Microbiology, 1999, 1, 357-367.	1.8	189
89	Microarray and Functional Gene Analyses of Sulfate-Reducing Prokaryotes in Low-Sulfate, Acidic Fens Reveal Cooccurrence of Recognized Genera and Novel Lineages. Applied and Environmental Microbiology, 2004, 70, 6998-7009.	1.4	188
90	Diversity of Sulfate-Reducing Bacteria in Oxic and Anoxic Regions of a Microbial Mat Characterized by Comparative Analysis of Dissimilatory Sulfite Reductase Genes. Applied and Environmental Microbiology, 1999, 65, 4666-4671.	1.4	184

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91	Cultivation and characterization of Candidatus Nitrosocosmicus exaquare, an ammonia-oxidizing archaeon from a municipal wastewater treatment system. ISME Journal, 2017, 11, 1142-1157.	4.4	182
92	Characterization of bacterial communities from activated sludge: Culture-dependent numerical identification versus in situ identification using group- and genus-specific rRNA-targeted oligonucleotide probes. Microbial Ecology, 1996, 32, 101-21.	1.4	179
93	Rational design of a microbial consortium of mucosal sugar utilizers reduces Clostridiodes difficile colonization. Nature Communications, 2020, 11, 5104.	5.8	177
94	Longitudinal study of murine microbiota activity and interactions with the host during acute inflammation and recovery. ISME Journal, 2014, 8, 1101-1114.	4.4	174
95	Single cell stable isotope probing in microbiology using Raman microspectroscopy. Current Opinion in Biotechnology, 2016, 41, 34-42.	3.3	174
96	Cultivation-Independent, Semiautomatic Determination of Absolute Bacterial Cell Numbers in Environmental Samples by Fluorescence In Situ Hybridization. Applied and Environmental Microbiology, 2001, 67, 5810-5818.	1.4	173
97	Functionally relevant diversity of closely related Nitrospira in activated sludge. ISME Journal, 2015, 9, 643-655.	4.4	172
98	probeCheck â€“ a central resource for evaluating oligonucleotide probe coverage and specificity. Environmental Microbiology, 2008, 10, 2894-2898.	1.8	170
99	An automated Raman-based platform for the sorting of live cells by functional properties. Nature Microbiology, 2019, 4, 1035-1048.	5.9	170
100	Linking microbial community structure with function: fluorescence in situ hybridization-microautoradiography and isotope arrays. Current Opinion in Biotechnology, 2006, 17, 83-91.	3.3	166
101	Growth of nitrite-oxidizing bacteria by aerobic hydrogen oxidation. Science, 2014, 345, 1052-1054.	6.0	166
102	Non-Sulfate-Reducing, Syntrophic Bacteria Affiliated with Desulfotomaculum Cluster I Are Widely Distributed in Methanogenic Environments. Applied and Environmental Microbiology, 2006, 72, 2080-2091.	1.4	165
103	ATP/ADP Translocases: a Common Feature of Obligate Intracellular Amoebal Symbionts Related to Chlamydiae and Rickettsiae. Journal of Bacteriology, 2004, 186, 683-691.	1.0	162
104	Reverse dissimilatory sulfite reductase as phylogenetic marker for a subgroup of sulfurâ€oxidizing prokaryotes. Environmental Microbiology, 2009, 11, 289-299.	1.8	162
105	Crenarchaeol dominates the membrane lipids of Candidatus Nitrososphaera gargensis, a thermophilic Group I.1b Archaeon. ISME Journal, 2010, 4, 542-552.	4.4	160
106	Double Labeling of Oligonucleotide Probes for Fluorescence In Situ Hybridization (DOPE-FISH) Improves Signal Intensity and Increases rRNA Accessibility. Applied and Environmental Microbiology, 2010, 76, 922-926.	1.4	160
107	Nitrospira. Trends in Microbiology, 2018, 26, 462-463.	3.5	157
108	Fluorescence in situ hybridization shows spatial distribution of as yet uncultured treponemes in biopsies from digital dermatitis lesions. Microbiology (United Kingdom), 1998, 144, 2459-2467.	0.7	156

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109	Anaerobic ammonium oxidation by marine and freshwater planctomycete-like bacteria. Applied Microbiology and Biotechnology, 2003, 63, 107-114.	1.7	156
110	Lateral Gene Transfer of Dissimilatory (Bi)Sulfite Reductase Revisited. Journal of Bacteriology, 2005, 187, 2203-2208.	1.0	153
111	Neochlamydia hartmannellae gen. nov., sp. nov. (Parachlamydiaceae), an endoparasite of the amoeba Hartmannella vermiformis The GenBank accession number for the sequence reported in this paper is AF177275.. Microbiology (United Kingdom), 2000, 146, 1231-1239.	0.7	151
112	Bacterial Endosymbionts of Free-living Amoebae1. Journal of Eukaryotic Microbiology, 2004, 51, 509-514.	0.8	149
113	Widespread soil bacterium that oxidizes atmospheric methane. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 8515-8524.	3.3	149
114	Crenothrix are major methane consumers in stratified lakes. ISME Journal, 2017, 11, 2124-2140.	4.4	146
115	Structure and activity of multiple nitrifying bacterial populations co-existing in a biofilm. Environmental Microbiology, 2003, 5, 355-369.	1.8	145
116	Selective enrichment and molecular characterization of a previously uncultured Nitrospira-like bacterium from activated sludge. Environmental Microbiology, 2006, 8, 405-415.	1.8	143
117	Towards a nondestructive chemical characterization of biofilm matrix by Raman microscopy. Analytical and Bioanalytical Chemistry, 2009, 393, 197-206.	1.9	142
118	Automated Confocal Laser Scanning Microscopy and Semiautomated Image Processing for Analysis of Biofilms. Applied and Environmental Microbiology, 1998, 64, 4115-4127.	1.4	139
119	In Situ Detection of Novel Bacterial Endosymbionts of Acanthamoeba spp. Phylogenetically Related to Members of the Order Rickettsiales. Applied and Environmental Microbiology, 1999, 65, 206-212.	1.4	138
120	The Genome of the Amoeba Symbiont â€œ Candidatus Amoebophilus asiaticusâ€•Reveals Common Mechanisms for Host Cell Interaction among Amoeba-Associated Bacteria. Journal of Bacteriology, 2010, 192, 1045-1057.	1.0	138
121	Nitrotoga-like bacteria are previously unrecognized key nitrite oxidizers in full-scale wastewater treatment plants. ISME Journal, 2015, 9, 708-720.	4.4	135
122	Phylogenetic Diversity among Geographically Dispersed Chlamydiales Endosymbionts Recovered from Clinical and Environmental Isolates of Acanthamoeba spp. Applied and Environmental Microbiology, 2000, 66, 2613-2619.	1.4	132
123	Novel Nitrospira-like bacteria as dominant nitrite-oxidizers in biofilms from wastewater treatment plants: diversity and in situ physiology. Water Science and Technology, 2000, 41, 85-90.	1.2	131
124	Resolving the individual contribution of key microbial populations to enhanced biological phosphorus removal with Ramanâ€“FISH. ISME Journal, 2019, 13, 1933-1946.	4.4	130
125	The abundance of Zoogloea ramigera in sewage treatment plants. Applied and Environmental Microbiology, 1995, 61, 702-707.	1.4	130
126	On the Occurrence of Anoxic Microniches, Denitrification, and Sulfate Reduction in Aerated Activated Sludge. Applied and Environmental Microbiology, 1999, 65, 4189-4196.	1.4	127

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127	Diversity and mode of transmission of ammoniaâ€oxidizing archaea in marine sponges. Environmental Microbiology, 2008, 10, 1087-1094.	1.8	127
128	On the evolution and physiology of cable bacteria. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 19116-19125.	3.3	127
129	Filamentous â€œEpsilonproteobacteriaâ€•Dominate Microbial Mats from Sulfidic Cave Springs. Applied and Environmental Microbiology, 2003, 69, 5503-5511.	1.4	125
130	Low yield and abiotic origin of N2O formed by the complete nitrifier Nitrospira inopinata. Nature Communications, 2019, 10, 1836.	5.8	123
131	Monitoring the community structure of wastewater treatment plants: a comparison of old and new techniques. FEMS Microbiology Ecology, 1998, 25, 205-215.	1.3	122
132	Community Analysis of Ammonia and Nitrite Oxidizers during Start-Up of Nitritation Reactors. Applied and Environmental Microbiology, 2003, 69, 3213-3222.	1.4	122
133	The Lithoautotrophic Ammonia-Oxidizing Bacteria. , 2006, , 778-811.		121
134	Back to the Future of Soil Metagenomics. Frontiers in Microbiology, 2016, 7, 73.	1.5	120
135	Biology of a widespread uncultivated archaeon that contributes to carbon fixation in the subsurface. Nature Communications, 2014, 5, 5497.	5.8	119
136	Phylogenetic Analysis of and Oligonucleotide Probe Development for Eikelboom Type 021N Filamentous Bacteria Isolated from Bulking Activated Sludge. Applied and Environmental Microbiology, 2000, 66, 5043-5052.	1.4	118
137	A Vista for Microbial Ecology and Environmental Biotechnology. Environmental Science & Technology, 2006, 40, 1096-1103.	4.6	118
138	In situ analysis of microbial consortia in activated sludge using fluorescently labelled, rRNAâ€targeted oligonucleotide probes and confocal scanning laser microscopy. Journal of Microscopy, 1994, 176, 181-187.	0.8	117
139	Ottowia thiooxydans gen. nov., sp. nov., a novel facultatively anaerobic, N2O-producing bacterium isolated from activated sludge, and transfer of Aquaspirillum gracile to Hylemonella gracilis gen. nov., comb. nov.. International Journal of Systematic and Evolutionary Microbiology, 2004, 54, 99-106.	0.8	117
140	Diversity of sulfate-reducing bacteria from an extreme hypersaline sediment, Great Salt Lake (Utah). FEMS Microbiology Ecology, 2007, 60, 287-298.	1.3	117
141	Evolutionary history of the genus Listeria and its virulence genes. Systematic and Applied Microbiology, 2005, 28, 1-18.	1.2	116
142	Roadmap for naming uncultivated Archaea and Bacteria. Nature Microbiology, 2020, 5, 987-994.	5.9	115
143	Quantification of Target Molecules Needed To Detect Microorganisms by Fluorescence In Situ Hybridization (FISH) and Catalyzed Reporter Deposition-FISH. Applied and Environmental Microbiology, 2008, 74, 5068-5077.	1.4	114
144	Characterization of the First â€œ Candidatus Nitrotogaâ€•Isolate Reveals Metabolic Versatility and Separate Evolution of Widespread Nitrite-Oxidizing Bacteria. MBio, 2018, 9, .	1.8	112

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145	Effect of long-term idle periods on the performance of sequencing batch reactors. Water Science and Technology, 2000, 41, 105-113.	1.2	111
146	In situ detection of a virulence factor mRNA and 16S rRNA inListeria monocytogenes. FEMS Microbiology Letters, 1998, 160, 159-168.	0.7	110
147	Population structure of microbial communities associated with two deep, anaerobic, alkaline aquifers. Applied and Environmental Microbiology, 1997, 63, 1498-1504.	1.4	108
148	Nitrification in sequencing biofilm batch reactors: lessons from molecular approaches. Water Science and Technology, 2001, 43, 9-18.	1.2	107
149	Ammoniaâ€oxidising archaea living at low pH: Insights from comparative genomics. Environmental Microbiology, 2017, 19, 4939-4952.	1.8	107
150	Microbial nitrogen limitation in the mammalian large intestine. Nature Microbiology, 2018, 3, 1441-1450.	5.9	107
151	Members of the Cytophaga-Flavobacterium-Bacteroides phylum as intracellular bacteria of acanthamoebae: proposal of 'Candidatus Amoebophilus asiaticus'. Environmental Microbiology, 2001, 3, 440-449.	1.8	106
152	Intestinal Microbiota Signatures Associated with Inflammation History in Mice Experiencing Recurring Colitis. Frontiers in Microbiology, 2015, 6, 1408.	1.5	106
153	Rapid Transfer of Plant Photosynthates to Soil Bacteria via Ectomycorrhizal Hyphae and Its Interaction With Nitrogen Availability. Frontiers in Microbiology, 2019, 10, 168.	1.5	106
154	Various bacterial pathogens and symbionts infect the amoeba Dictyostelium discoideum. International Journal of Medical Microbiology, 2002, 291, 615-624.	1.5	105
155	Monitoring microbial diversity and natural product profiles of the sponge Aplysina cavernicola following transplantation. Marine Biology, 2003, 142, 685-692.	0.7	105
156	Advancements in the application of NanoSIMS and Raman microspectroscopy to investigate the activity of microbial cells in soils. FEMS Microbiology Ecology, 2015, 91, fiv106.	1.3	105
157	Abiotic Conversion of Extracellular NH₂OH Contributes to N₂O Emission during Ammonia Oxidation. Environmental Science & Technology, 2017, 51, 13122-13132.	4.6	104
158	Long-distance electron transport in individual, living cable bacteria. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 5786-5791.	3.3	104
159	Cyanate and urea are substrates for nitrification by Thaumarchaeota in the marine environment. Nature Microbiology, 2019, 4, 234-243.	5.9	103
160	Environmental genomics reveals a functional chlorite dismutase in the nitriteâ€oxidizing bacterium â€˜Candidatus Nitrospira defluviiâ€™. Environmental Microbiology, 2008, 10, 3043-3056.	1.8	102
161	The Genus Caedibacter Comprises Endosymbionts of Paramecium spp. Related to the Rickettsiales (Alphaproteobacteria) and to Francisella tularensis (Gammaproteobacteria). Applied and Environmental Microbiology, 2002, 68, 6043-6050.	1.4	100
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