

Michael Wagner

List of Publications by Year in descending order

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Version: 2024-02-01

271
papers

46,353
citations

1370

108
h-index

2076

204
g-index

277
all docs

277
docs citations

277
times ranked

30308
citing authors

#	ARTICLE	IF	CITATIONS
1	Complete nitrification by <i>Nitrospira</i> bacteria. <i>Nature</i> , 2015, 528, 504-509.	13.7	1,878
2	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
3	Sponge-Associated Microorganisms: Evolution, Ecology, and Biotechnological Potential. <i>Microbiology and Molecular Biology Reviews</i> , 2007, 71, 295-347.	2.9	1,254
4	Deciphering the evolution and metabolism of an anammox bacterium from a community genome. <i>Nature</i> , 2006, 440, 790-794.	13.7	1,075
5	Phylogeny of All Recognized Species of Ammonia Oxidizers Based on Comparative 16S rRNA and <i>amoA</i> Sequence Analysis: Implications for Molecular Diversity Surveys. <i>Applied and Environmental Microbiology</i> , 2000, 66, 5368-5382.	1.4	1,013
6	Microbiome definition re-visited: old concepts and new challenges. <i>Microbiome</i> , 2020, 8, 103.	4.9	903
7	Proposal to reclassify the proteobacterial classes Deltaproteobacteria and Oligoflexia, and the phylum Thermodesulfobacteria into four phyla reflecting major functional capabilities. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2020, 70, 5972-6016.	0.8	830
8	<i>Nitrososphaera viennensis</i> , an ammonia oxidizing archaeon from soil. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 8420-8425.	3.3	810
9	A <i>Nitrospira</i> metagenome illuminates the physiology and evolution of globally important nitrite-oxidizing bacteria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 13479-13484.	3.3	732
10	In Situ Characterization of <i>Nitrospira</i> -Like Nitrite-Oxidizing Bacteria Active in Wastewater Treatment Plants. <i>Applied and Environmental Microbiology</i> , 2001, 67, 5273-5284.	1.4	718
11	A moderately thermophilic ammonia-oxidizing crenarchaeote from a hot spring. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 2134-2139.	3.3	626
12	A New Perspective on Microbes Formerly Known as Nitrite-Oxidizing Bacteria. <i>Trends in Microbiology</i> , 2016, 24, 699-712.	3.5	625
13	Oligonucleotide Microarray for 16S rRNA Gene-Based Detection of All Recognized Lineages of Sulfate-Reducing Prokaryotes in the Environment. <i>Applied and Environmental Microbiology</i> , 2002, 68, 5064-5081.	1.4	622
14	Molecular Evidence for a Uniform Microbial Community in Sponges from Different Oceans. <i>Applied and Environmental Microbiology</i> , 2002, 68, 4431-4440.	1.4	621
15	Kinetic analysis of a complete nitrifier reveals an oligotrophic lifestyle. <i>Nature</i> , 2017, 549, 269-272.	13.7	588
16	High-fat diet alters gut microbiota physiology in mice. <i>ISME Journal</i> , 2014, 8, 295-308.	4.4	583
17	daime, a novel image analysis program for microbial ecology and biofilm research. <i>Environmental Microbiology</i> , 2006, 8, 200-213.	1.8	565
18	Microbiology and application of the anaerobic ammonium oxidation (anammox) process. <i>Current Opinion in Biotechnology</i> , 2001, 12, 283-288.	3.3	534

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19	Microbial diversity and the genetic nature of microbial species. <i>Nature Reviews Microbiology</i> , 2008, 6, 431-440.	13.6	521
20	Barcoded Primers Used in Multiplex Amplicon Pyrosequencing Bias Amplification. <i>Applied and Environmental Microbiology</i> , 2011, 77, 7846-7849.	1.4	514
21	The Thaumarchaeota: an emerging view of their phylogeny and ecophysiology. <i>Current Opinion in Microbiology</i> , 2011, 14, 300-306.	2.3	511
22	Zero-valent sulphur is a key intermediate in marine methane oxidation. <i>Nature</i> , 2012, 491, 541-546.	13.7	498
23	Global diversity and biogeography of bacterial communities in wastewater treatment plants. <i>Nature Microbiology</i> , 2019, 4, 1183-1195.	5.9	491
24	Bacterial community composition and function in sewage treatment systems. <i>Current Opinion in Biotechnology</i> , 2002, 13, 218-227.	3.3	488
25	<i>amoA</i> -based consensus phylogeny of ammonia-oxidizing archaea and deep sequencing of <i>amoA</i> genes from soils of four different geographic regions. <i>Environmental Microbiology</i> , 2012, 14, 525-539.	1.8	485
26	Amoebae as Training Grounds for Intracellular Bacterial Pathogens. <i>Applied and Environmental Microbiology</i> , 2005, 71, 20-28.	1.4	452
27	Expanded metabolic versatility of ubiquitous nitrite-oxidizing bacteria from the genus <i>Nitrospira</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 11371-11376.	3.3	439
28	Distinct gene set in two different lineages of ammonia-oxidizing archaea supports the phylum Thaumarchaeota. <i>Trends in Microbiology</i> , 2010, 18, 331-340.	3.5	431
29	probeBase—an online resource for rRNA-targeted oligonucleotide probes: new features 2007. <i>Nucleic Acids Research</i> , 2007, 35, D800-D804.	6.5	421
30	The Planctomycetes, Verrucomicrobia, Chlamydiae and sister phyla comprise a superphylum with biotechnological and medical relevance. <i>Current Opinion in Biotechnology</i> , 2006, 17, 241-249.	3.3	405
31	Deep sequencing reveals exceptional diversity and modes of transmission for bacterial sponge symbionts. <i>Environmental Microbiology</i> , 2010, 12, 2070-2082.	1.8	394
32	Illuminating the Evolutionary History of Chlamydiae. <i>Science</i> , 2004, 304, 728-730.	6.0	373
33	probeBase: an online resource for rRNA-targeted oligonucleotide probes. <i>Nucleic Acids Research</i> , 2003, 31, 514-516.	6.5	345
34	Microbial community composition and function in wastewater treatment plants. <i>Antonie Van Leeuwenhoek</i> , 2002, 81, 665-680.	0.7	341
35	The Microbial Community Composition of a Nitrifying-Denitrifying Activated Sludge from an Industrial Sewage Treatment Plant Analyzed by the Full-Cycle rRNA Approach. <i>Systematic and Applied Microbiology</i> , 2002, 25, 84-99.	1.2	338
36	Fluorescence in situ hybridisation for the identification and characterisation of prokaryotes. <i>Current Opinion in Microbiology</i> , 2003, 6, 302-309.	2.3	335

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37	The genome of the ammonia-oxidizing <i>Candidatus Nitrososphaera gargensis</i> : insights into metabolic versatility and environmental adaptations. <i>Environmental Microbiology</i> , 2012, 14, 3122-3145.	1.8	332
38	Biomarkers for In Situ Detection of Anaerobic Ammonium-Oxidizing (Anammox) Bacteria. <i>Applied and Environmental Microbiology</i> , 2005, 71, 1677-1684.	1.4	325
39	Isolation and phylogenetic analysis of bacteria with antimicrobial activities from the Mediterranean sponges <i>Aplysina aerophoba</i> and <i>Aplysina cavernicola</i> . <i>FEMS Microbiology Ecology</i> , 2001, 35, 305-312.	1.3	321
40	AmoA-Targeted Polymerase Chain Reaction Primers for the Specific Detection and Quantification of Comammox <i>Nitrospira</i> in the Environment. <i>Frontiers in Microbiology</i> , 2017, 8, 1508.	1.5	313
41	Multiple Lateral Transfers of Dissimilatory Sulfite Reductase Genes between Major Lineages of Sulfate-Reducing Prokaryotes. <i>Journal of Bacteriology</i> , 2001, 183, 6028-6035.	1.0	309
42	Raman-FISH: combining stable-isotope Raman spectroscopy and fluorescence in situ hybridization for the single cell analysis of identity and function. <i>Environmental Microbiology</i> , 2007, 9, 1878-1889.	1.8	305
43	A "rare biosphere" microorganism contributes to sulfate reduction in a peatland. <i>ISME Journal</i> , 2010, 4, 1591-1602.	4.4	303
44	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
45	Phylotype-level 16S rRNA analysis reveals new bacterial indicators of health state in acute murine colitis. <i>ISME Journal</i> , 2012, 6, 2091-2106.	4.4	291
46	Biodegradation of synthetic polymers in soils: Tracking carbon into CO ₂ and microbial biomass. <i>Science Advances</i> , 2018, 4, eaas9024.	4.7	284
47	<i>NxrB</i> encoding the beta subunit of nitrite oxidoreductase as functional and phylogenetic marker for nitrite-oxidizing <i>Nitrospira</i> . <i>Environmental Microbiology</i> , 2014, 16, 3055-3071.	1.8	280
48	Discovery of the Novel Candidate Phylum "Poribacteria" in Marine Sponges. <i>Applied and Environmental Microbiology</i> , 2004, 70, 3724-3732.	1.4	275
49	Thaumarchaeotes abundant in refinery nitrifying sludges express <i>amoA</i> but are not obligate autotrophic ammonia oxidizers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 16771-16776.	3.3	272
50	Single-Cell Ecophysiology of Microbes as Revealed by Raman Microspectroscopy or Secondary Ion Mass Spectrometry Imaging. <i>Annual Review of Microbiology</i> , 2009, 63, 411-429.	2.9	270
51	16S rRNA and <i>amoA</i> -based phylogeny of 12 novel betaproteobacterial ammonia-oxidizing isolates: extension of the dataset and proposal of a new lineage within the nitrosomonads. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2003, 53, 1485-1494.	0.8	257
52	Who eats what, where and when? Isotope-labelling experiments are coming of age. <i>ISME Journal</i> , 2007, 1, 103-110.	4.4	239
53	Giant viruses with an expanded complement of translation system components. <i>Science</i> , 2017, 356, 82-85.	6.0	234
54	Diversity and abundance of sulfate-reducing microorganisms in the sulfate and methane zones of a marine sediment, Black Sea. <i>Environmental Microbiology</i> , 2007, 9, 131-142.	1.8	233

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55	16S rRNA Gene-Based Oligonucleotide Microarray for Environmental Monitoring of the Betaproteobacterial Order <i>β</i> -Rhodocyclales. <i>Applied and Environmental Microbiology</i> , 2005, 71, 1373-1386.	1.4	231
56	Cyanate as an energy source for nitrifiers. <i>Nature</i> , 2015, 524, 105-108.	13.7	231
57	Cohn's <i>Crenothrix</i> a filamentous methane oxidizer with an unusual methane monooxygenase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 2363-2367.	3.3	229
58	16S-23S rDNA intergenic spacer and 23S rDNA of anaerobic ammonium-oxidizing bacteria: implications for phylogeny and in situ detection. <i>Environmental Microbiology</i> , 2001, 3, 450-459.	1.8	227
59	The Isotope Array, a New Tool That Employs Substrate-Mediated Labeling of rRNA for Determination of Microbial Community Structure and Function. <i>Applied and Environmental Microbiology</i> , 2003, 69, 6875-6887.	1.4	223
60	New Insights into Metabolic Properties of Marine Bacteria Encoding Proteorhodopsins. <i>PLoS Biology</i> , 2005, 3, e273.	2.6	218
61	Nitrifying and heterotrophic population dynamics in biofilm reactors: effects of hydraulic retention time and the presence of organic carbon. <i>Water Research</i> , 2002, 36, 469-481.	5.3	217
62	Wastewater treatment: a model system for microbial ecology. <i>Trends in Biotechnology</i> , 2006, 24, 483-489.	4.9	216
63	Use of Stable-Isotope Probing, Full-Cycle rRNA Analysis, and Fluorescence In Situ Hybridization-Microautoradiography To Study a Methanol-Fed Denitrifying Microbial Community. <i>Applied and Environmental Microbiology</i> , 2004, 70, 588-596.	1.4	213
64	Host-compound foraging by intestinal microbiota revealed by single-cell stable isotope probing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 4720-4725.	3.3	210
65	Nitrite concentration influences the population structure of <i>Nitrospira</i> -like bacteria. <i>Environmental Microbiology</i> , 2006, 8, 1487-1495.	1.8	209
66	Acoustic correlates of information structure. <i>Language and Cognitive Processes</i> , 2010, 25, 1044-1098.	2.3	204
67	In situ characterization of the microbial consortia active in two wastewater treatment plants. <i>Water Research</i> , 1994, 28, 1715-1723.	5.3	196
68	Endosymbiotic sulphate-reducing and sulphide-oxidizing bacteria in an oligochaete worm. <i>Nature</i> , 2001, 411, 298-302.	13.7	196
69	Genomic Encyclopedia of Bacteria and Archaea: Sequencing a Myriad of Type Strains. <i>PLoS Biology</i> , 2014, 12, e1001920.	2.6	190
70	Novel bacterial endosymbionts of <i>Acanthamoeba</i> spp. related to the <i>Paramecium caudatum</i> symbiont <i>Caedibacter caryophilus</i> . <i>Environmental Microbiology</i> , 1999, 1, 357-367.	1.8	189
71	Microarray and Functional Gene Analyses of Sulfate-Reducing Prokaryotes in Low-Sulfate, Acidic Fens Reveal Cooccurrence of Recognized Genera and Novel Lineages. <i>Applied and Environmental Microbiology</i> , 2004, 70, 6998-7009.	1.4	188
72	Combined use of confocal laser scanning microscopy (CLSM) and Raman microscopy (RM): Investigations on EPS "Matrix". <i>Water Research</i> , 2009, 43, 63-76.	5.3	185

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73	Cultivation and characterization of <i>Candidatus</i> Nitrosocosmicus exaquare, an ammonia-oxidizing archaeon from a municipal wastewater treatment system. ISME Journal, 2017, 11, 1142-1157.	4.4	182
74	Rational design of a microbial consortium of mucosal sugar utilizers reduces <i>Clostridiodes difficile</i> colonization. Nature Communications, 2020, 11, 5104.	5.8	177
75	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
76	Single cell stable isotope probing in microbiology using Raman microspectroscopy. Current Opinion in Biotechnology, 2016, 41, 34-42.	3.3	174
77	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
78	Functionally relevant diversity of closely related <i>Nitrospira</i> in activated sludge. ISME Journal, 2015, 9, 643-655.	4.4	172
79	probeCheck – a central resource for evaluating oligonucleotide probe coverage and specificity. Environmental Microbiology, 2008, 10, 2894-2898.	1.8	170
80	An automated Raman-based platform for the sorting of live cells by functional properties. Nature Microbiology, 2019, 4, 1035-1048.	5.9	170
81	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
82	Growth of nitrite-oxidizing bacteria by aerobic hydrogen oxidation. Science, 2014, 345, 1052-1054.	6.0	166
83	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
84	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
85	Reverse dissimilatory sulfite reductase as phylogenetic marker for a subgroup of sulfur-oxidizing prokaryotes. Environmental Microbiology, 2009, 11, 289-299.	1.8	162
86	Crenarchaeol dominates the membrane lipids of <i>Candidatus</i> Nitrososphaera gargensis, a thermophilic Group I.1b Archaeon. ISME Journal, 2010, 4, 542-552.	4.4	160
87	Double Labeling of Oligonucleotide Probes for Fluorescence <i>In Situ</i> Hybridization (DOPE-FISH) Improves Signal Intensity and Increases rRNA Accessibility. Applied and Environmental Microbiology, 2010, 76, 922-926.	1.4	160
88	<i>Nitrospira</i> . Trends in Microbiology, 2018, 26, 462-463.	3.5	157
89	Lateral Gene Transfer of Dissimilatory (Bi)Sulfite Reductase Revisited. Journal of Bacteriology, 2005, 187, 2203-2208.	1.0	153
90	Bacterial Endosymbionts of Free-living Amoebae.1. Journal of Eukaryotic Microbiology, 2004, 51, 509-514.	0.8	149

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91	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
92	<i>Crenothrix</i> are major methane consumers in stratified lakes. ISME Journal, 2017, 11, 2124-2140.	4.4	146
93	Structure and activity of multiple nitrifying bacterial populations co-existing in a biofilm. Environmental Microbiology, 2003, 5, 355-369.	1.8	145
94	Selective enrichment and molecular characterization of a previously uncultured Nitrospira-like bacterium from activated sludge. Environmental Microbiology, 2006, 8, 405-415.	1.8	143
95	Towards a nondestructive chemical characterization of biofilm matrix by Raman microscopy. Analytical and Bioanalytical Chemistry, 2009, 393, 197-206.	1.9	142
96	The Genome of the Amoeba Symbiont <i>Candidatus</i> Amoebophilus asiaticus Reveals Common Mechanisms for Host Cell Interaction among Amoeba-Associated Bacteria. Journal of Bacteriology, 2010, 192, 1045-1057.	1.0	138
97	<i>Nitrotoga</i>-like bacteria are previously unrecognized key nitrite oxidizers in full-scale wastewater treatment plants. ISME Journal, 2015, 9, 708-720.	4.4	135
98	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
99	Optical coherence tomography in biofilm research: A comprehensive review. Biotechnology and Bioengineering, 2017, 114, 1386-1402.	1.7	131
100	Resolving the individual contribution of key microbial populations to enhanced biological phosphorus removal with Raman-FISH. ISME Journal, 2019, 13, 1933-1946.	4.4	130
101	Investigation of the mesoscale structure and volumetric features of biofilms using optical coherence tomography. Biotechnology and Bioengineering, 2010, 107, 844-853.	1.7	128
102	Diversity and mode of transmission of ammonia-oxidizing archaea in marine sponges. Environmental Microbiology, 2008, 10, 1087-1094.	1.8	127
103	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
104	Filamentous <i>Epsilonproteobacteria</i> Dominate Microbial Mats from Sulfidic Cave Springs. Applied and Environmental Microbiology, 2003, 69, 5503-5511.	1.4	125
105	Low yield and abiotic origin of N ₂ O formed by the complete nitrifier Nitrospira inopinata. Nature Communications, 2019, 10, 1836.	5.8	123
106	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
107	Community Analysis of Ammonia and Nitrite Oxidizers during Start-Up of Nitrification Reactors. Applied and Environmental Microbiology, 2003, 69, 3213-3222.	1.4	122
108	The Lithoautotrophic Ammonia-Oxidizing Bacteria. , 2006, , 778-811.		121

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109	Back to the Future of Soil Metagenomics. <i>Frontiers in Microbiology</i> , 2016, 7, 73.	1.5	120
110	Biology of a widespread uncultivated archaeon that contributes to carbon fixation in the subsurface. <i>Nature Communications</i> , 2014, 5, 5497.	5.8	119
111	Phylogenetic Analysis of and Oligonucleotide Probe Development for Eikelboom Type O21N Filamentous Bacteria Isolated from Bulking Activated Sludge. <i>Applied and Environmental Microbiology</i> , 2000, 66, 5043-5052.	1.4	118
112	A Vista for Microbial Ecology and Environmental Biotechnology. <i>Environmental Science & Technology</i> , 2006, 40, 1096-1103.	4.6	118
113	<i>Ottowia thiooxydans</i> gen. nov., sp. nov., a novel facultatively anaerobic, N ₂ O-producing bacterium isolated from activated sludge, and transfer of <i>Aquaspirillum gracile</i> to <i>Hylemonella gracilis</i> gen. nov., comb. nov.. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2004, 54, 99-106.	0.8	117
114	Diversity of sulfate-reducing bacteria from an extreme hypersaline sediment, Great Salt Lake (Utah). <i>FEMS Microbiology Ecology</i> , 2007, 60, 287-298.	1.3	117
115	Evolutionary history of the genus <i>Listeria</i> and its virulence genes. <i>Systematic and Applied Microbiology</i> , 2005, 28, 1-18.	1.2	116
116	Roadmap for naming uncultivated Archaea and Bacteria. <i>Nature Microbiology</i> , 2020, 5, 987-994.	5.9	115
117	Quantification of Target Molecules Needed To Detect Microorganisms by Fluorescence In Situ Hybridization (FISH) and Catalyzed Reporter Deposition-FISH. <i>Applied and Environmental Microbiology</i> , 2008, 74, 5068-5077.	1.4	114
118	Characterization of the First <i>Candidatus Nitrotoga</i> Isolate Reveals Metabolic Versatility and Separate Evolution of Widespread Nitrite-Oxidizing Bacteria. <i>MBio</i> , 2018, 9, .	1.8	112
119	Ammonia-oxidising archaea living at low pH: Insights from comparative genomics. <i>Environmental Microbiology</i> , 2017, 19, 4939-4952.	1.8	107
120	Microbial nitrogen limitation in the mammalian large intestine. <i>Nature Microbiology</i> , 2018, 3, 1441-1450.	5.9	107
121	Members of the Cytophaga-Flavobacterium-Bacteroides phylum as intracellular bacteria of acanthamoebae: proposal of 'Candidatus Amoebophilus asiaticus'. <i>Environmental Microbiology</i> , 2001, 3, 440-449.	1.8	106
122	Rapid Transfer of Plant Photosynthates to Soil Bacteria via Ectomycorrhizal Hyphae and Its Interaction With Nitrogen Availability. <i>Frontiers in Microbiology</i> , 2019, 10, 168.	1.5	106
123	Various bacterial pathogens and symbionts infect the amoeba <i>Dictyostelium discoideum</i> . <i>International Journal of Medical Microbiology</i> , 2002, 291, 615-624.	1.5	105
124	Advancements in the application of NanoSIMS and Raman microspectroscopy to investigate the activity of microbial cells in soils. <i>FEMS Microbiology Ecology</i> , 2015, 91, fiv106.	1.3	105
125	Abiotic Conversion of Extracellular NH ₂ OH Contributes to N ₂ O Emission during Ammonia Oxidation. <i>Environmental Science & Technology</i> , 2017, 51, 13122-13132.	4.6	104
126	Long-distance electron transport in individual, living cable bacteria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 5786-5791.	3.3	104

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127	Cyanate and urea are substrates for nitrification by Thaumarchaeota in the marine environment. <i>Nature Microbiology</i> , 2019, 4, 234-243.	5.9	103
128	Environmental genomics reveals a functional chlorite dismutase in the nitrite-oxidizing bacterium <i>Candidatus Nitrospira defluvia</i> TM . <i>Environmental Microbiology</i> , 2008, 10, 3043-3056.	1.8	102
129	The Genus <i>Caedibacter</i> Comprises Endosymbionts of <i>Paramecium</i> spp. Related to the Rickettsiales (Alphaproteobacteria) and to <i>Francisella tularensis</i> (Gammaproteobacteria). <i>Applied and Environmental Microbiology</i> , 2002, 68, 6043-6050.	1.4	100
130	Improved 16S rRNA-targeted probe set for analysis of sulfate-reducing bacteria by fluorescence in situ hybridization. <i>Journal of Microbiological Methods</i> , 2007, 69, 523-528.	0.7	98
131	Abundance and Phylogenetic Affiliation of Iron Reducers in Activated Sludge as Assessed by Fluorescence In Situ Hybridization and Microautoradiography. <i>Applied and Environmental Microbiology</i> , 2002, 68, 4629-4636.	1.4	97
132	Related assemblages of sulphate-reducing bacteria associated with ultradeep gold mines of South Africa and deep basalt aquifers of Washington State. <i>Environmental Microbiology</i> , 2003, 5, 267-277.	1.8	96
133	Ammonia-oxidizing archaea possess a wide range of cellular ammonia affinities. <i>ISME Journal</i> , 2022, 16, 272-283.	4.4	96
134	A candidate NAD ⁺ transporter in an intracellular bacterial symbiont related to Chlamydiae. <i>Nature</i> , 2004, 432, 622-625.	13.7	95
135	Unravelling Microbial Communities with DNA-Microarrays: Challenges and Future Directions. <i>Microbial Ecology</i> , 2007, 53, 498-506.	1.4	95
136	Quantification of uncultured microorganisms by fluorescence microscopy and digital image analysis. <i>Applied Microbiology and Biotechnology</i> , 2007, 75, 237-248.	1.7	95
137	Ecophysiology of an uncultivated lineage of Aigarchaeota from an oxic, hot spring filamentous <i>streamer</i> TM community. <i>ISME Journal</i> , 2016, 10, 210-224.	4.4	94
138	Label-Free in Situ SERS Imaging of Biofilms. <i>Journal of Physical Chemistry B</i> , 2010, 114, 10184-10194.	1.2	93
139	Diversity of Bacterial Endosymbionts of Environmental <i>Acanthamoeba</i> Isolates. <i>Applied and Environmental Microbiology</i> , 2008, 74, 5822-5831.	1.4	92
140	Givenness and Locality. <i>Semantics and Linguistic Theory</i> , 0, 16, 295.	0.0	90
141	Raman microspectroscopy reveals long-term extracellular activity of chlamydiae. <i>Molecular Microbiology</i> , 2010, 77, 687-700.	1.2	89
142	Characterization of activated sludge flocs by confocal laser scanning microscopy and image analysis. <i>Water Research</i> , 2003, 37, 2043-2052.	5.3	88
143	<i>Malikia granosa</i> gen. nov., sp. nov., a novel polyhydroxyalkanoate- and polyphosphate-accumulating bacterium isolated from activated sludge, and reclassification of <i>Pseudomonas spinosa</i> as <i>Malikia spinosa</i> comb. nov.. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2005, 55, 621-629.	0.8	88
144	<i>Candidatus Protochlamydia amoebophila</i> TM , an endosymbiont of <i>Acanthamoeba</i> spp.. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2005, 55, 1863-1866.	0.8	88

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145	NanoSIMS combined with fluorescence microscopy as a tool for subcellular imaging of isotopically labeled platinum-based anticancer drugs. <i>Chemical Science</i> , 2014, 5, 3135-3143.	3.7	87
146	Functional Marker Genes for Identification of Sulfate-Reducing Prokaryotes. <i>Methods in Enzymology</i> , 2005, 397, 469-489.	0.4	86
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