Michael Wagner

List of Publications by Year
in descending order

271	46,353	1368 108	2071 204
papers	citations	h-index	g-index

277	277	277	30308
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Complete nitrification by Nitrospira bacteria. Nature, 2015, 528, 504-509.	13.7	1,878
2	Phylogenetic Oligodeoxynucleotide Probes for the Major Subclasses of Proteobacteria: Problems and Solutions. Systematic and Applied Microbiology, 1992, 15, 593-600.	1.2	1,875
3	Sponge-Associated Microorganisms: Evolution, Ecology, and Biotechnological Potential. Microbiology and Molecular Biology Reviews, 2007, 71, 295-347.	2.9	1,254
4	Deciphering the evolution and metabolism of an anammox bacterium from a community genome. Nature, 2006, 440, 790-794.	13.7	1,075
5	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
6	Microbiome definition re-visited: old concepts and new challenges. Microbiome, 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. International Journal of Systematic and Evolutionary Microbiology, 2020, 70, 5972-6016.	0.8	830
8	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
9	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
10	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
11	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
12	A New Perspective on Microbes Formerly Known as Nitrite-Oxidizing Bacteria. Trends in Microbiology, 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. Applied and Environmental Microbiology, 2002, 68, 5064-5081.	1.4	622
14	Molecular Evidence for a Uniform Microbial Community in Sponges from Different Oceans. Applied and Environmental Microbiology, 2002, 68, 4431-4440.	1.4	621
15	Kinetic analysis of a complete nitrifier reveals an oligotrophic lifestyle. Nature, 2017, 549, 269-272.	13.7	588
16	High-fat diet alters gut microbiota physiology in mice. ISME Journal, 2014, 8, 295-308.	4.4	583
17	daime, a novel image analysis program for microbial ecology and biofilm research. Environmental Microbiology, 2006, 8, 200-213.	1.8	565
18	Microbiology and application of the anaerobic ammonium oxidation (â€˜anammoxâ€™) process. Current Opinion in Biotechnology, 2001, 12, 283-288.	3.3	534

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19	Microbial diversity and the genetic nature of microbial species. Nature Reviews Microbiology, 2008, 6, 431-440.	13.6	521
20	Barcoded Primers Used in Multiplex Amplicon Pyrosequencing Bias Amplification. Applied and Environmental Microbiology, 2011, 77, 7846-7849.	1.4	514
21	The Thaumarchaeota: an emerging view of their phylogeny and ecophysiology. Current Opinion in Microbiology, 2011, 14, 300-306.	2.3	511
22	Zero-valent sulphur is a key intermediate in marine methane oxidation. Nature, 2012, 491, 541-546.	13.7	498
23	Global diversity and biogeography of bacterial communities in wastewater treatment plants. Nature Microbiology, 2019, 4, 1183-1195.	5.9	491
24	Bacterial community composition and function in sewage treatment systems. Current Opinion in Biotechnology, 2002, 13, 218-227.	3.3	488
25	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
26	Amoebae as Training Grounds for Intracellular Bacterial Pathogens. Applied and Environmental Microbiology, 2005, 71, 20-28.	1.4	452
27	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
28	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
29	probeBase--an online resource for rRNA-targeted oligonucleotide probes: new features 2007. Nucleic Acids Research, 2007, 35, D800-D804.	6.5	421
30	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
31	Deep sequencing reveals exceptional diversity and modes of transmission for bacterial sponge symbionts. Environmental Microbiology, 2010, 12, 2070-2082.	1.8	394
32	Illuminating the Evolutionary History of Chlamydiae. Science, 2004, 304, 728-730.	6.0	373
33	probeBase: an online resource for rRNA-targeted oligonucleotide probes. Nucleic Acids Research, 2003, 31, 514-516.	6.5	345
34	Microbial community composition and function in wastewater treatment plants. Antonie Van Leeuwenhoek, 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. Systematic and Applied Microbiology, 2002, 25, 84-99.	1.2	338
36	Fluorescence in situ hybridisation for the identification and characterisation of prokaryotes. Current Opinion in Microbiology, 2003, 6, 302-309.	2.3	335

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37	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
38	Biomarkers for In Situ Detection of Anaerobic Ammonium-Oxidizing (Anammox) Bacteria. Applied and Environmental Microbiology, 2005, 71, 1677-1684.	1.4	325
39	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
40	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
41	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
42	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
43	A â€˜rare biosphereâ€™ microorganism contributes to sulfate reduction in a peatland. ISME Journal, 2010, 4, 1591-1602.	4.4	303
44	Community Structure and Activity Dynamics of Nitrifying Bacteria in a Phosphate-Removing Biofilm. Applied and Environmental Microbiology, 2001, 67, 1351-1362.	1.4	297
45	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
46	Biodegradation of synthetic polymers in soils: Tracking carbon into CO ₂ and microbial biomass. Science Advances, 2018, 4, eaas9024.	4.7	284
47	<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
48	Discovery of the Novel Candidate Phylum â€œPoribacteriaâ€•in Marine Sponges. Applied and Environmental Microbiology, 2004, 70, 3724-3732.	1.4	275
49	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
50	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
51	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
52	Who eats what, where and when? Isotope-labelling experiments are coming of age. ISME Journal, 2007, 1, 103-110.	4.4	239
53	Giant viruses with an expanded complement of translation system components. Science, 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. Environmental Microbiology, 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 â€œ Rhodocyclales â€• Applied and Environmental Microbiology, 2005, 71, 1373-1386.	1.4	231
56	Cyanate as an energy source for nitrifiers. Nature, 2015, 524, 105-108.	13.7	231
57	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
58	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
59	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
60	New Insights into Metabolic Properties of Marine Bacteria Encoding Proteorhodopsins. PLoS Biology, 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. Water Research, 2002, 36, 469-481.	5.3	217
62	Wastewater treatment: a model system for microbial ecology. Trends in Biotechnology, 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. Applied and Environmental Microbiology, 2004, 70, 588-596.	1.4	213
64	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
65	Nitrite concentration influences the population structure of Nitrospira-like bacteria. Environmental Microbiology, 2006, 8, 1487-1495.	1.8	209
66	Acoustic correlates of information structure. Language and Cognitive Processes, 2010, 25, 1044-1098.	2.3	204
67	In situ characterization of the microbial consortia active in two wastewater treatment plants. Water Research, 1994, 28, 1715-1723.	5.3	196
68	Endosymbiotic sulphate-reducing and sulphide-oxidizing bacteria in an oligochaete worm. Nature, 2001, 411, 298-302.	13.7	196
69	Genomic Encyclopedia of Bacteria and Archaea: Sequencing a Myriad of Type Strains. PLoS Biology, 2014, 12, e1001920.	2.6	190
70	Novel bacterial endosymbionts of Acanthamoeba spp. related to the Paramecium caudatum symbiont Caedibacter caryophilus. Environmental Microbiology, 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. Applied and Environmental Microbiology, 2004, 70, 6998-7009.	1.4	188
72	Combined use of confocal laser scanning microscopy (CLSM) and Raman microscopy (RM): Investigations on EPS â€“ Matrix. Water Research, 2009, 43, 63-76.	5.3	185

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73	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
74	Rational design of a microbial consortium of mucosal sugar utilizers reduces Clostridiodes difficile 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 Nitrospira in activated sludge. ISME Journal, 2015, 9, 643-655.	4.4	172
79	probeCheck â€“ 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 sulfurâ€oxidizing prokaryotes. Environmental Microbiology, 2009, 11, 289-299.	1.8	162
86	Crenarchaeol dominates the membrane lipids of Candidatus 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 In Situ Hybridization (DOPE-FISH) Improves Signal Intensity and Increases rRNA Accessibility. Applied and Environmental Microbiology, 2010, 76, 922-926.	1.4	160
88	Nitrospira. 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 Amoebae1. 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	Crenothrix 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 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
97	Nitrotoga-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 Ramanâ€“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 ammoniaâ€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 â€œEpsilonproteobacteriaâ€•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 N2O 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 Nitritation 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. Frontiers in Microbiology, 2016, 7, 73.	1.5	120
110	Biology of a widespread uncultivated archaeon that contributes to carbon fixation in the subsurface. Nature Communications, 2014, 5, 5497.	5.8	119
111	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
112	A Vista for Microbial Ecology and Environmental Biotechnology. Environmental Science & Technology, 2006, 40, 1096-1103.	4.6	118
113	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
114	Diversity of sulfate-reducing bacteria from an extreme hypersaline sediment, Great Salt Lake (Utah). FEMS Microbiology Ecology, 2007, 60, 287-298.	1.3	117
115	Evolutionary history of the genus Listeria and its virulence genes. Systematic and Applied Microbiology, 2005, 28, 1-18.	1.2	116
116	Roadmap for naming uncultivated Archaea and Bacteria. Nature Microbiology, 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. Applied and Environmental Microbiology, 2008, 74, 5068-5077.	1.4	114
118	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
119	Ammoniaâ€oxidising archaea living at low pH: Insights from comparative genomics. Environmental Microbiology, 2017, 19, 4939-4952.	1.8	107
120	Microbial nitrogen limitation in the mammalian large intestine. Nature Microbiology, 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'. Environmental Microbiology, 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. Frontiers in Microbiology, 2019, 10, 168.	1.5	106
123	Various bacterial pathogens and symbionts infect the amoeba Dictyostelium discoideum. International Journal of Medical Microbiology, 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. FEMS Microbiology Ecology, 2015, 91, fiv106.	1.3	105
125	Abiotic Conversion of Extracellular NH₂OH Contributes to N₂O Emission during Ammonia Oxidation. Environmental Science & Technology, 2017, 51, 13122-13132.	4.6	104
126	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

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127	Cyanate and urea are substrates for nitrification by Thaumarchaeota in the marine environment. Nature Microbiology, 2019, 4, 234-243.	5.9	103
128	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
129	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
130	Improved 16S rRNA-targeted probe set for analysis of sulfate-reducing bacteria by fluorescence in situ hybridization. Journal of Microbiological Methods, 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. Applied and Environmental Microbiology, 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. Environmental Microbiology, 2003, 5, 267-277.	1.8	96
133	Ammonia-oxidizing archaea possess a wide range of cellular ammonia affinities. ISME Journal, 2022, 16, 272-283.	4.4	96
134	A candidate NAD+ transporter in an intracellular bacterial symbiont related to Chlamydiae. Nature, 2004, 432, 622-625.	13.7	95
135	Unravelling Microbial Communities with DNA-Microarrays: Challenges and Future Directions. Microbial Ecology, 2007, 53, 498-506.	1.4	95
136	Quantification of uncultured microorganisms by fluorescence microscopy and digital image analysis. Applied Microbiology and Biotechnology, 2007, 75, 237-248.	1.7	95
137	Ecophysiology of an uncultivated lineage of Aigarchaeota from an oxic, hot spring filamentous â€˜streamerâ€™ community. ISME Journal, 2016, 10, 210-224.	4.4	94
138	Label-Free in Situ SERS Imaging of Biofilms. Journal of Physical Chemistry B, 2010, 114, 10184-10194.	1.2	93
139	Diversity of Bacterial Endosymbionts of Environmental Acanthamoeba Isolates. Applied and Environmental Microbiology, 2008, 74, 5822-5831.	1.4	92
140	Givenness and Locality. Semantics and Linguistic Theory, 0, 16, 295.	0.0	90
141	Raman microspectroscopy reveals longâ€term extracellular activity of chlamydiae. Molecular Microbiology, 2010, 77, 687-700.	1.2	89
142	Characterization of activated sludge flocs by confocal laser scanning microscopy and image analysis. Water Research, 2003, 37, 2043-2052.	5.3	88
143	Malikia granosa gen. nov., sp. nov., a novel polyhydroxyalkanoate- and polyphosphate-accumulating bacterium isolated from activated sludge, and reclassification of Pseudomonas spinosa as Malikia spinosa comb. nov.. International Journal of Systematic and Evolutionary Microbiology, 2005, 55, 621-629.	0.8	88
144	â€˜Candidatus Protochlamydia amoebophilaâ€™, an endosymbiont of Acanthamoeba spp.. International Journal of Systematic and Evolutionary Microbiology, 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. Chemical Science, 2014, 5, 3135-3143.	3.7	87
146	Functional Marker Genes for Identification of Sulfateâ€Reducing Prokaryotes. Methods in Enzymology, 2005, 397, 469-489.	0.4	86
147	Isotope array analysis of Rhodocyclales uncovers functional redundancy and versatility in an activated sludge. ISME Journal, 2009, 3, 1349-1364.	4.4	86
148	New trends in fluorescence in situ hybridization for identification and functional analyses of microbes. Current Opinion in Biotechnology, 2012, 23, 96-102.	3.3	86
149	â€œ Candidatus Thiobios zoothamnicoli,â€•an Ectosymbiotic Bacterium Covering the Giant Marine Ciliate Zoothamnium niveum. Applied and Environmental Microbiology, 2006, 72, 2014-2021.	1.4	84
150	Enrichment and Genome Sequence of the Group I.1a Ammonia-Oxidizing Archaeon â€œCa. Nitrosotenuis uzonensisâ€•Representing a Clade Globally Distributed in Thermal Habitats. PLoS ONE, 2013, 8, e80835.	1.1	84
151	Cometabolic biotransformation and microbial-mediated abiotic transformation of sulfonamides by three ammonia oxidizers. Water Research, 2019, 159, 444-453.	5.3	83
152	Focus and givenness: a unified approach. , 2012, , 102-147.		80
153	Structural and functional characterisation of the chlorite dismutase from the nitrite-oxidizing bacterium â€œCandidatus Nitrospira defluviiâ€• Identification of a catalytically important amino acid residue. Journal of Structural Biology, 2010, 172, 331-342.	1.3	79
154	Prosody and recursion in coordinate structures andÂbeyond. Natural Language and Linguistic Theory, 2010, 28, 183-237.	0.6	78
155	Chlamydia-like bacteria in respiratory samples of community-acquired pneumonia patients. FEMS Microbiology Letters, 2008, 281, 198-202.	0.7	76
156	Unexpected Diversity of Chlorite Dismutases: a Catalytically Efficient Dimeric Enzyme from Nitrobacter winogradskyi. Journal of Bacteriology, 2011, 193, 2408-2417.	1.0	76
157	A nanoscale secondary ion mass spectrometry study of dinoflagellate functional diversity in reefâ€building corals. Environmental Microbiology, 2015, 17, 3570-3580.	1.8	76
158	Timeâ€resolved biofilm deformation measurements using optical coherence tomography. Biotechnology and Bioengineering, 2015, 112, 1893-1905.	1.7	76
159	Cultivation and Genomic Analysis of â€œCandidatus Nitrosocaldus islandicus,â€•an Obligately Thermophilic, Ammonia-Oxidizing Thaumarchaeon from a Hot Spring Biofilm in Graendalur Valley, Iceland. Frontiers in Microbiology, 2018, 9, 193.	1.5	76
160	Detection and Differentiation of Chlamydiae by Fluorescence In Situ Hybridization. Applied and Environmental Microbiology, 2002, 68, 4081-4089.	1.4	75
161	Paracatenula , an ancient symbiosis between thiotrophic Alphaproteobacteria and catenulid flatworms. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 12078-12083.	3.3	75
162	Recovery of an environmental chlamydia strain from activated sludge by co-cultivation with Acanthamoeba sp.. Microbiology (United Kingdom), 2005, 151, 301-309.	0.7	73

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