

Michael Wagner

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

318
papers

44,871
citations

112
h-index

207
g-index

368
ext. papers

52,849
ext. citations

8.5
avg, IF

7.33
L-index

#	Paper	IF	Citations
318	Enrichment of phosphate-accumulating organisms (PAOs) in a microfluidic model biofilm system by mimicking a typical aerobic granular sludge feast/famine regime.. <i>Applied Microbiology and Biotechnology</i> , 2022 , 106, 1313	5.7	0
317	The novel genus, <i>Candidatus Phosphoribacter</i> , previously identified as <i>Tetrasphaera</i> , is the dominant polyphosphate accumulating lineage in EBPR wastewater treatment plants worldwide.. <i>ISME Journal</i> , 2022 ,	11.9	2
316	Raman microspectroscopy for microbiology. <i>Nature Reviews Methods Primers</i> , 2021 , 1,		9
315	Anaerobic Sulfur Oxidation Underlies Adaptation of a Chemosynthetic Symbiont to Oxic-Anoxic Interfaces. <i>MSystems</i> , 2021 , 6, e0118620	7.6	4
314	Prevalence of RT-qPCR-detected SARS-CoV-2 infection at schools: First results from the Austrian School-SARS-CoV-2 prospective cohort study. <i>Lancet Regional Health - Europe, The</i> , 2021 , 5, 100086		14
313	Genomic insights into diverse bacterial taxa that degrade extracellular DNA in marine sediments. <i>Nature Microbiology</i> , 2021 , 6, 885-898	26.6	1
312	Optofluidic Raman-activated cell sorting for targeted genome retrieval or cultivation of microbial cells with specific functions. <i>Nature Protocols</i> , 2021 , 16, 634-676	18.8	13
311	Genomic and kinetic analysis of novel Nitrospinae enriched by cell sorting. <i>ISME Journal</i> , 2021 , 15, 732-745.	9	8
310	Flow-through stable isotope probing (Flow-SIP) minimizes cross-feeding in complex microbial communities. <i>ISME Journal</i> , 2021 , 15, 348-353	11.9	6
309	Albumin-targeting of an oxaliplatin-releasing platinum(IV) prodrug results in pronounced anticancer activity due to endocytotic drug uptake. <i>Chemical Science</i> , 2021 , 12, 12587-12599	9.4	8
308	Nano-scale imaging of dual stable isotope labeled oxaliplatin in human colon cancer cells reveals the nucleolus as a putative node for therapeutic effect. <i>Nanoscale Advances</i> , 2021 , 3, 249-262	5.1	2
307	Die Wechselwirkung mit ribosomalen Proteinen begleitet die Stressinduktion des Wirkstoffkandidaten BOLD-100/KP1339 im endoplasmatischen Retikulum. <i>Angewandte Chemie</i> , 2021 , 133, 5121-5126	3.6	0
306	Interaction with Ribosomal Proteins Accompanies Stress Induction of the Anticancer Metallodrug BOLD-100/KP1339 in the Endoplasmic Reticulum. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 5063-5068	16.4	17
305	Innentitelbild: Die Wechselwirkung mit ribosomalen Proteinen begleitet die Stressinduktion des Wirkstoffkandidaten BOLD-100/KP1339 im endoplasmatischen Retikulum (Angew. Chem. 10/2021). <i>Angewandte Chemie</i> , 2021 , 133, 5006-5006	3.6	
304	Ammonia-oxidizing archaea possess a wide range of cellular ammonia affinities. <i>ISME Journal</i> , 2021 ,	11.9	15
303	Cyanate is a low abundance but actively cycled nitrogen compound in soil. <i>Communications Earth & Environment</i> , 2021 , 2,	6.1	2
302	Recently photoassimilated carbon and fungus-delivered nitrogen are spatially correlated in the ectomycorrhizal tissue of <i>Fagus sylvatica</i> . <i>New Phytologist</i> , 2021 , 232, 2457-2474	9.8	2

301	Novel <i>Alcaligenes ammonioxydans</i> sp. nov. from wastewater treatment sludge oxidizes ammonia to N with a previously unknown pathway. <i>Environmental Microbiology</i> , 2021 , 23, 6965-6980	5.2	4
300	Nitrogen Kinetic Isotope Effects of Nitrification by the Complete Ammonia Oxidizer <i>Nitrospira inopinata</i> . <i>MSphere</i> , 2021 , e0063421	5	1
299	Roadmap for naming uncultivated Archaea and Bacteria. <i>Nature Microbiology</i> , 2020 , 5, 987-994	26.6	64
298	Microbiome definition re-visited: old concepts and new challenges. <i>Microbiome</i> , 2020 , 8, 103	16.6	271
297	Single cell analyses reveal contrasting life strategies of the two main nitrifiers in the ocean. <i>Nature Communications</i> , 2020 , 11, 767	17.4	29
296	Transcriptomic Response of <i>Nitrosomonas europaea</i> Transitioned from Ammonia- to Oxygen-Limited Steady-State Growth. <i>MSystems</i> , 2020 , 5,	7.6	10
295	Raman-based sorting of microbial cells to link functions to their genes. <i>Microbial Cell</i> , 2020 , 7, 62-65	3.9	9
294	Proposal to reclassify the proteobacterial classes and , and the phylum into four phyla reflecting major functional capabilities. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2020 , 70, 5972-6016	2.2	205
293	Archaeal nitrification is constrained by copper complexation with organic matter in municipal wastewater treatment plants. <i>ISME Journal</i> , 2020 , 14, 335-346	11.9	33
292	Rational design of a microbial consortium of mucosal sugar utilizers reduces <i>Clostridiodes difficile</i> colonization. <i>Nature Communications</i> , 2020 , 11, 5104	17.4	57
291	A refined set of rRNA-targeted oligonucleotide probes for in situ detection and quantification of ammonia-oxidizing bacteria. <i>Water Research</i> , 2020 , 186, 116372	12.5	9
290	Composition and activity of nitrifier communities in soil are unresponsive to elevated temperature and CO ₂ , but strongly affected by drought. <i>ISME Journal</i> , 2020 , 14, 3038-3053	11.9	14
289	Exploring the upper pH limits of nitrite oxidation: diversity, ecophysiology, and adaptive traits of haloalkalitolerant <i>Nitrospira</i> . <i>ISME Journal</i> , 2020 , 14, 2967-2979	11.9	17
288	Expansion of Thaumarchaeota habitat range is correlated with horizontal transfer of ATPase operons. <i>ISME Journal</i> , 2019 , 13, 3067-3079	11.9	32
287	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	5.7	46
286	Indications for enzymatic denitrification to NO at low pH in an ammonia-oxidizing archaeon. <i>ISME Journal</i> , 2019 , 13, 2633-2638	11.9	18
285	Cometabolic biotransformation and microbial-mediated abiotic transformation of sulfonamides by three ammonia oxidizers. <i>Water Research</i> , 2019 , 159, 444-453	12.5	42
284	Global diversity and biogeography of bacterial communities in wastewater treatment plants. <i>Nature Microbiology</i> , 2019 , 4, 1183-1195	26.6	248

283	Low yield and abiotic origin of NO formed by the complete nitrifier <i>Nitrospira inopinata</i> . <i>Nature Communications</i> , 2019 , 10, 1836	17.4	62
282	An automated Raman-based platform for the sorting of live cells by functional properties. <i>Nature Microbiology</i> , 2019 , 4, 1035-1048	26.6	104
281	Widespread soil bacterium that oxidizes atmospheric methane. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 8515-8524	11.5	75
280	Resolving the individual contribution of key microbial populations to enhanced biological phosphorus removal with Raman-FISH. <i>ISME Journal</i> , 2019 , 13, 1933-1946	11.9	62
279	Membrane Lipid Composition of the Moderately Thermophilic Ammonia-Oxidizing Archaeon " <i>Nitrosotenuis uzonensis</i> " at Different Growth Temperatures. <i>Applied and Environmental Microbiology</i> , 2019 , 85,	4.8	13
278	On the evolution and physiology of cable bacteria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 19116-19125	11.5	61
277	Specific Micropollutant Biotransformation Pattern by the Comammox Bacterium. <i>Environmental Science & Technology</i> , 2019 , 53, 8695-8705	10.3	31
276	Characterization of a thaumarchaeal symbiont that drives incomplete nitrification in the tropical sponge <i>Ianthella basta</i> . <i>Environmental Microbiology</i> , 2019 , 21, 3831-3854	5.2	23
275	Machine-assisted cultivation and analysis of biofilms. <i>Scientific Reports</i> , 2019 , 9, 8933	4.9	9
274	Wastewater, 2. Aerobic Biological Treatment 2019 , 1-55		
273	Surface-enhanced Raman spectroscopy of microorganisms: limitations and applicability on the single-cell level. <i>Analyst, The</i> , 2019 , 144, 943-953	5	28
272	Sulfate is transported at significant rates through the symbiosome membrane and is crucial for nitrogenase biosynthesis. <i>Plant, Cell and Environment</i> , 2019 , 42, 1180-1189	8.4	20
271	Cyanate and urea are substrates for nitrification by Thaumarchaeota in the marine environment. <i>Nature Microbiology</i> , 2019 , 4, 234-243	26.6	55
270	<i>Nitrospira</i> . <i>Trends in Microbiology</i> , 2018 , 26, 462-463	12.4	77
269	NanoSIMS and tissue autoradiography reveal symbiont carbon fixation and organic carbon transfer to giant ciliate host. <i>ISME Journal</i> , 2018 , 12, 714-727	11.9	24
268	Draft Genome Sequence of 26-4b1, an Acidotolerant Peatland Alphaproteobacterium Potentially Involved in Sulfur Cycling. <i>Genome Announcements</i> , 2018 , 6,		6
267	Biodegradation of synthetic polymers in soils: Tracking carbon into CO and microbial biomass. <i>Science Advances</i> , 2018 , 4, eaas9024	14.3	130
266	Cultivation and Genomic Analysis of " <i>Nitrosocaldus islandicus</i> ," an Obligately Thermophilic, Ammonia-Oxidizing Thaumarchaeon from a Hot Spring Biofilm in Graendalur Valley, Iceland. <i>Frontiers in Microbiology</i> , 2018 , 9, 193	5.7	49

265	Characterization of the First " Nitrotoga" Isolate Reveals Metabolic Versatility and Separate Evolution of Widespread Nitrite-Oxidizing Bacteria. <i>MBio</i> , 2018 , 9,	7.8	58
264	Ammonia Monooxygenase-Mediated Cometabolic Biotransformation and Hydroxylamine-Mediated Abiotic Transformation of Micropollutants in an AOB/NOB Coculture. <i>Environmental Science & Technology</i> , 2018 , 52, 9196-9205	10.3	36
263	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	11.5	62
262	Microbial nitrogen limitation in the mammalian large intestine. <i>Nature Microbiology</i> , 2018 , 3, 1441-1450	26.6	48
261	Cultivation and characterization of Candidatus Nitrosocosmicus exaquare, an ammonia-oxidizing archaeon from a municipal wastewater treatment system. <i>ISME Journal</i> , 2017 , 11, 1142-1157	11.9	119
260	Capturing the genetic makeup of the active microbiome in situ. <i>ISME Journal</i> , 2017 , 11, 1949-1963	11.9	55
259	Crenothrix are major methane consumers in stratified lakes. <i>ISME Journal</i> , 2017 , 11, 2124-2140	11.9	87
258	Giant viruses with an expanded complement of translation system components. <i>Science</i> , 2017 , 356, 82-85	33.3	148
257	Abiotic Conversion of Extracellular NHOH Contributes to NO Emission during Ammonia Oxidation. <i>Environmental Science & Technology</i> , 2017 , 51, 13122-13132	10.3	73
256	Kinetic analysis of a complete nitrifier reveals an oligotrophic lifestyle. <i>Nature</i> , 2017 , 549, 269-272	50.4	349
255	Ammonia-oxidising archaea living at low pH: Insights from comparative genomics. <i>Environmental Microbiology</i> , 2017 , 19, 4939-4952	5.2	57
254	-Targeted Polymerase Chain Reaction Primers for the Specific Detection and Quantification of Comammox in the Environment. <i>Frontiers in Microbiology</i> , 2017 , 8, 1508	5.7	210
253	Ecophysiology of an uncultivated lineage of Aigarchaeota from an oxic, hot spring filamentous streamer community. <i>ISME Journal</i> , 2016 , 10, 210-24	11.9	33
252	The inhibitory effects of reject water on nitrifying populations grown at different biofilm thickness. <i>Water Research</i> , 2016 , 104, 292-302	12.5	33
251	A New Perspective on Microbes Formerly Known as Nitrite-Oxidizing Bacteria. <i>Trends in Microbiology</i> , 2016 , 24, 699-712	12.4	362
250	Multi-scale imaging of anticancer platinum(IV) compounds in murine tumor and kidney. <i>Chemical Science</i> , 2016 , 7, 3052-3061	9.4	32
249	Back to the Future of Soil Metagenomics. <i>Frontiers in Microbiology</i> , 2016 , 7, 73	5.7	82
248	Candidatus Nitrosotenuis 2016 , 1-9		1

247	Candidatus Nitrosotenuaceae 2016 , 1-5		1
246	Biotransformation of Two Pharmaceuticals by the Ammonia-Oxidizing Archaeon Nitrososphaera gargensis. <i>Environmental Science & Technology</i> , 2016 , 50, 4682-92	10.3	47
245	Single cell stable isotope probing in microbiology using Raman microspectroscopy. <i>Current Opinion in Biotechnology</i> , 2016 , 41, 34-42	11.4	126
244	Inhibitory effects of C2 to C10 1-alkynes on ammonia oxidation in two Nitrososphaera species. <i>Applied and Environmental Microbiology</i> , 2015 , 81, 1942-8	4.8	36
243	Cyanate as an energy source for nitrifiers. <i>Nature</i> , 2015 , 524, 105-8	50.4	160
242	Microbiology: Conductive consortia. <i>Nature</i> , 2015 , 526, 513-4	50.4	10
241	Intestinal Epithelial Cell Tyrosine Kinase 2 Transduces IL-22 Signals To Protect from Acute Colitis. <i>Journal of Immunology</i> , 2015 , 195, 5011-24	5.3	33
240	Endosymbionts escape dead hydrothermal vent tubeworms to enrich the free-living population. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 11300-5	11.5	39
239	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,	4.3	72
238	Complete nitrification by Nitrospira bacteria. <i>Nature</i> , 2015 , 528, 504-9	50.4	1148
237	Expanded metabolic versatility of ubiquitous nitrite-oxidizing bacteria from the genus Nitrospira. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 11371-6	11.5	265
236	Functionally relevant diversity of closely related Nitrospira in activated sludge. <i>ISME Journal</i> , 2015 , 9, 643-55	11.9	112
235	Revisiting N ₂ fixation in Guerrero Negro intertidal microbial mats with a functional single-cell approach. <i>ISME Journal</i> , 2015 , 9, 485-96	11.9	52
234	A nanoscale secondary ion mass spectrometry study of dinoflagellate functional diversity in reef-building corals. <i>Environmental Microbiology</i> , 2015 , 17, 3570-80	5.2	44
233	Intestinal Microbiota Signatures Associated with Inflammation History in Mice Experiencing Recurring Colitis. <i>Frontiers in Microbiology</i> , 2015 , 6, 1408	5.7	67
232	Tracking heavy water (D ₂ O) incorporation for identifying and sorting active microbial cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, E194-203	11.5	244
231	Nitrotoga-like bacteria are previously unrecognized key nitrite oxidizers in full-scale wastewater treatment plants. <i>ISME Journal</i> , 2015 , 9, 708-20	11.9	93
230	Longitudinal study of murine microbiota activity and interactions with the host during acute inflammation and recovery. <i>ISME Journal</i> , 2014 , 8, 1101-14	11.9	121

229	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	9.4	71
228	Growth of nitrite-oxidizing bacteria by aerobic hydrogen oxidation. <i>Science</i> , 2014 , 345, 1052-4	33.3	99
227	Confocal laser scanning microscopy as a tool to validate the efficiency of membrane cleaning procedures to remove biofilms. <i>Separation and Purification Technology</i> , 2014 , 122, 402-411	8.3	18
226	Diversity, Environmental Genomics, and Ecophysiology of Nitrite-Oxidizing Bacteria 2014 , 295-322		16
225	Fish-Microautoradiography and Isotope Arrays for Monitoring the Ecophysiology of Microbes Within Their Natural Environment 2014 , 305-316		2
224	Genomic encyclopedia of bacteria and archaea: sequencing a myriad of type strains. <i>PLoS Biology</i> , 2014 , 12, e1001920	9.7	146
223	Biology of a widespread uncultivated archaeon that contributes to carbon fixation in the subsurface. <i>Nature Communications</i> , 2014 , 5, 5497	17.4	86
222	Type I interferons have opposing effects during the emergence and recovery phases of colitis. <i>European Journal of Immunology</i> , 2014 , 44, 2749-60	6.1	23
221	NxrB encoding the beta subunit of nitrite oxidoreductase as functional and phylogenetic marker for nitrite-oxidizing Nitrospira. <i>Environmental Microbiology</i> , 2014 , 16, 3055-71	5.2	193
220	High-fat diet alters gut microbiota physiology in mice. <i>ISME Journal</i> , 2014 , 8, 295-308	11.9	393
219	Einzelzellanalyse lebender Mikroorganismen. <i>BioSpektrum</i> , 2013 , 19, 631-633	0.1	
218	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, 4720-5	11.5	147
217	Interactions of nitrifying bacteria and heterotrophs: identification of a Micavibrio-like putative predator of Nitrospira spp. <i>Applied and Environmental Microbiology</i> , 2013 , 79, 2027-37	4.8	67
216	Oxidation of Inorganic Nitrogen Compounds as an Energy Source 2013 , 83-118		11
215	Depletion of unwanted nucleic acid templates by selective cleavage: LNAzymes, catalytically active oligonucleotides containing locked nucleic acids, open a new window for detecting rare microbial community members. <i>Applied and Environmental Microbiology</i> , 2013 , 79, 1534-44	4.8	9
214	Enrichment and genome sequence of the group I.1a ammonia-oxidizing Archaeon "Ca. Nitrosotenuis uzonensis" representing a clade globally distributed in thermal habitats. <i>PLoS ONE</i> , 2013 , 8, e80835	3.7	68
213	New trends in fluorescence in situ hybridization for identification and functional analyses of microbes. <i>Current Opinion in Biotechnology</i> , 2012 , 23, 96-102	11.4	72
212	amoA-based consensus phylogeny of ammonia-oxidizing archaea and deep sequencing of amoA genes from soils of four different geographic regions. <i>Environmental Microbiology</i> , 2012 , 14, 525-39	5.2	402

211	The genome of the ammonia-oxidizing Candidatus Nitrososphaera gargensis: insights into metabolic versatility and environmental adaptations. <i>Environmental Microbiology</i> , 2012 , 14, 3122-45	5.2	239
210	Zero-valent sulphur is a key intermediate in marine methane oxidation. <i>Nature</i> , 2012 , 491, 541-6	50.4	389
209	Intracellular vesicles as reproduction elements in cell wall-deficient L-form bacteria. <i>PLoS ONE</i> , 2012 , 7, e38514	3.7	25
208	Phylotype-level 16S rRNA analysis reveals new bacterial indicators of health state in acute murine colitis. <i>ISME Journal</i> , 2012 , 6, 2091-106	11.9	208
207	Nitrification expanded: discovery, physiology and genomics of a nitrite-oxidizing bacterium from the phylum Chloroflexi. <i>ISME Journal</i> , 2012 , 6, 2245-56	11.9	216
206	Bacteriocyte-associated gammaproteobacterial symbionts of the Adelges nordmannianae/piceae complex (Hemiptera: Adelgidae). <i>ISME Journal</i> , 2012 , 6, 384-96	11.9	18
205	Complete genome sequences of Desulfosporosinus orientis DSM765T, Desulfosporosinus youngiae DSM17734T, Desulfosporosinus meridiei DSM13257T, and Desulfosporosinus acidiphilus DSM22704T. <i>Journal of Bacteriology</i> , 2012 , 194, 6300-1	3.5	46
204	A straightforward DOPE (double labeling of oligonucleotide probes)-FISH (fluorescence in situ hybridization) method for simultaneous multicolor detection of six microbial populations. <i>Applied and Environmental Microbiology</i> , 2012 , 78, 5138-42	4.8	34
203	Sulfate-reducing microorganisms in wetlands - fameless actors in carbon cycling and climate change. <i>Frontiers in Microbiology</i> , 2012 , 3, 72	5.7	174
202	Modeling formamide denaturation of probe-target hybrids for improved microarray probe design in microbial diagnostics. <i>PLoS ONE</i> , 2012 , 7, e43862	3.7	10
201	Barcoded primers used in multiplex amplicon pyrosequencing bias amplification. <i>Applied and Environmental Microbiology</i> , 2011 , 77, 7846-9	4.8	377
200	In situ techniques and digital image analysis methods for quantifying spatial localization patterns of nitrifiers and other microorganisms in biofilm and flocs. <i>Methods in Enzymology</i> , 2011 , 496, 185-215	1.7	18
199	The Thaumarchaeota: an emerging view of their phylogeny and ecophysiology. <i>Current Opinion in Microbiology</i> , 2011 , 14, 300-6	7.9	403
198	Systematic spatial bias in DNA microarray hybridization is caused by probe spot position-dependent variability in lateral diffusion. <i>PLoS ONE</i> , 2011 , 6, e23727	3.7	16
197	Chloroflexi bacteria are more diverse, abundant, and similar in high than in low microbial abundance sponges. <i>FEMS Microbiology Ecology</i> , 2011 , 78, 497-510	4.3	57
196	Nitrososphaera viennensis, an ammonia oxidizing archaeon from soil. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 8420-5	11.5	644
195	Proteomic analysis reveals a virtually complete set of proteins for translation and energy generation in elementary bodies of the amoeba symbiont Protochlamydia amoebophila. <i>Proteomics</i> , 2011 , 11, 1868-92	4.8	12
194	Microorganisms with novel dissimilatory (bi)sulfite reductase genes are widespread and part of the core microbiota in low-sulfate peatlands. <i>Applied and Environmental Microbiology</i> , 2011 , 77, 1231-42	4.8	35

193	Thaumarchaeotes abundant in refinery nitrifying sludges express amoA but are not obligate autotrophic ammonia oxidizers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 16771-6	11.5	239
192	Unexpected diversity of chlorite dismutases: a catalytically efficient dimeric enzyme from <i>Nitrobacter winogradskyi</i> . <i>Journal of Bacteriology</i> , 2011 , 193, 2408-17	3.5	66
191	Paracatenula, an ancient symbiosis between thiotrophic Alphaproteobacteria and catenulid flatworms. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 12078-83	11.5	57
190	Raman microspectroscopy reveals long-term extracellular activity of Chlamydiae. <i>Molecular Microbiology</i> , 2010 , 77, 687-700	4.1	80
189	Crenarchaeol dominates the membrane lipids of Candidatus Nitrososphaera gargensis, a thermophilic group I.1b Archaeon. <i>ISME Journal</i> , 2010 , 4, 542-52	11.9	136
188	A Rare biosphere microorganism contributes to sulfate reduction in a peatland. <i>ISME Journal</i> , 2010 , 4, 1591-602	11.9	208
187	Double labeling of oligonucleotide probes for fluorescence in situ hybridization (DOPE-FISH) improves signal intensity and increases rRNA accessibility. <i>Applied and Environmental Microbiology</i> , 2010 , 76, 922-6	4.8	121
186	Inclusion membrane proteins of Protochlamydia amoebophila UWE25 reveal a conserved mechanism for host cell interaction among the Chlamydiae. <i>Journal of Bacteriology</i> , 2010 , 192, 5093-102 ^{3.5}	27	
185	The genome of the amoeba symbiont "Candidatus Amoebophilus asiaticus" reveals common mechanisms for host cell interaction among amoeba-associated bacteria. <i>Journal of Bacteriology</i> , 2010 , 192, 1045-57	3.5	113
184	Label-free in situ SERS imaging of biofilms. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 10184-94	3.4	75
183	Structural and functional characterisation of the chlorite dismutase from the nitrite-oxidizing bacterium "Candidatus Nitrospira defluvii": identification of a catalytically important amino acid residue. <i>Journal of Structural Biology</i> , 2010 , 172, 331-42	3.4	68
182	Distinct gene set in two different lineages of ammonia-oxidizing archaea supports the phylum Thaumarchaeota. <i>Trends in Microbiology</i> , 2010 , 18, 331-40	12.4	390
181	A Nitrospira 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, 13479-84	11.5	488
180	Deep sequencing reveals exceptional diversity and modes of transmission for bacterial sponge symbionts. <i>Environmental Microbiology</i> , 2010 , 12, 2070-82	5.2	298
179	Raman microscopy and surface-enhanced Raman scattering (SERS) for in situ analysis of biofilms. <i>Journal of Biophotonics</i> , 2010 , 3, 548-56	3.1	38
178	Proteomic analysis of the outer membrane of Protochlamydia amoebophila elementary bodies. <i>Proteomics</i> , 2010 , 10, 4363-76	4.8	12
177	Comprehensive in silico prediction and analysis of chlamydial outer membrane proteins reflects evolution and life style of the Chlamydiae. <i>BMC Genomics</i> , 2009 , 10, 634	4.5	26
176	Towards a nondestructive chemical characterization of biofilm matrix by Raman microscopy. <i>Analytical and Bioanalytical Chemistry</i> , 2009 , 393, 197-206	4.4	122

175	Isotope array analysis of Rhodocyclales uncovers functional redundancy and versatility in an activated sludge. <i>ISME Journal</i> , 2009 , 3, 1349-64	11.9	74
174	High genetic similarity between two geographically distinct strains of the sulfur-oxidizing symbiont <i>Candidatus Thiobios zoothamnicoli</i> . <i>FEMS Microbiology Ecology</i> , 2009 , 67, 229-41	4.3	16
173	Reverse dissimilatory sulfite reductase as phylogenetic marker for a subgroup of sulfur-oxidizing prokaryotes. <i>Environmental Microbiology</i> , 2009 , 11, 289-99	5.2	111
172	Single-cell ecophysiology of microbes as revealed by Raman microspectroscopy or secondary ion mass spectrometry imaging. <i>Annual Review of Microbiology</i> , 2009 , 63, 411-29	17.5	227
171	Microbial diversity and the genetic nature of microbial species. <i>Nature Reviews Microbiology</i> , 2008 , 6, 431-40	22.2	429
170	Diversity and mode of transmission of ammonia-oxidizing archaea in marine sponges. <i>Environmental Microbiology</i> , 2008 , 10, 1087-94	5.2	102
169	Environmental genomics reveals a functional chlorite dismutase in the nitrite-oxidizing bacterium <i>Candidatus Nitrospira defluvii</i> . <i>Environmental Microbiology</i> , 2008 , 10, 3043-56	5.2	86
168	probeCheck—a central resource for evaluating oligonucleotide probe coverage and specificity. <i>Environmental Microbiology</i> , 2008 , 10, 2894-8	5.2	154
167	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, 5068-77	4.8	104
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15	Functional Expression of the Alkane-Inducible Monooxygenase System of the Yeast: Candida tropicalis IN Saccharomyces cerevisiae. <i>Biocatalysis</i> , 1990 , 4, 19-28		7
14	Changes in Plasminogen Activator Activity and Plasmin Inhibition in the Pig During Experimental Hypovolaemia. <i>Thrombosis and Haemostasis</i> , 1985 , 53, 130-133	7	3

13	Molecular strategies for studies of natural populations of sulphate-reducing microorganisms	39-116	11
12	Exploring the upper pH limits of nitrite oxidation: diversity, ecophysiology, and adaptive traits of haloalkalitolerant <i>Nitrospira</i>		2
11	Cultivation and genomic analysis of <i>Candidatus Nitrosocaldus islandicus</i> , a novel obligately thermophilic ammonia-oxidizing Thaumarchaeon		1
10	A novel oxidase from <i>Alcaligenes</i> sp. HO-1 oxidizes hydroxylamine to N ₂		1
9	Anaerobic sulfur oxidation underlies adaptation of a chemosynthetic symbiont to oxic-anoxic interfaces		1
8	Genomic and kinetic analysis of novel Nitrospinae enriched by cell sorting		2
7	Cyanate is a low abundant but actively cycled nitrogen compound in soil		1
6	Machine-assisted cultivation and analysis of biofilms		3
5	Resolving the individual contribution of key microbial populations to enhanced biological phosphorus removal with Raman-FISH		1
4	Characterization of a thaumarchaeal symbiont that drives incomplete nitrification in the tropical sponge <i>Anthella basta</i>		1
3	Isotopic-labelling methods for deciphering the function of uncultured micro-organisms	1-10	1
2	Ammonia-oxidizing archaea possess a wide range of cellular ammonia affinities		3
1	Activated Sludge and Biofilms: Molecular Techniques for Determining Community Composition		3