

Mike S M Jetten

List of Publications by Year in descending order

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449
papers

55,826
citations

813

118
h-index

1568

217
g-index

478
all docs

478
docs citations

478
times ranked

20783
citing authors

#	ARTICLE	IF	CITATIONS
1	The sequencing batch reactor as a powerful tool for the study of slowly growing anaerobic ammonium-oxidizing microorganisms. <i>Applied Microbiology and Biotechnology</i> , 1998, 50, 589-596.	3.6	1,857
2	Nitrite-driven anaerobic methane oxidation by oxygenic bacteria. <i>Nature</i> , 2010, 464, 543-548.	27.8	1,521
3	Missing lithotroph identified as new planctomycete. <i>Nature</i> , 1999, 400, 446-449.	27.8	1,382
4	Complete nitrification by a single microorganism. <i>Nature</i> , 2015, 528, 555-559.	27.8	1,336
5	Key Physiology of Anaerobic Ammonium Oxidation. <i>Applied and Environmental Microbiology</i> , 1999, 65, 3248-3250.	3.1	1,124
6	A microbial consortium couples anaerobic methane oxidation to denitrification. <i>Nature</i> , 2006, 440, 918-921.	27.8	1,115
7	Anaerobic ammonium oxidation by anammox bacteria in the Black Sea. <i>Nature</i> , 2003, 422, 608-611.	27.8	1,081
8	Deciphering the evolution and metabolism of an anammox bacterium from a community genome. <i>Nature</i> , 2006, 440, 790-794.	27.8	1,075
9	Nitrous oxide emission during wastewater treatment. <i>Water Research</i> , 2009, 43, 4093-4103.	11.3	1,032
10	Molecular mechanism of anaerobic ammonium oxidation. <i>Nature</i> , 2011, 479, 127-130.	27.8	707
11	Revising the nitrogen cycle in the Peruvian oxygen minimum zone. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 4752-4757.	7.1	677
12	From The Cover: Massive nitrogen loss from the Benguela upwelling system through anaerobic ammonium oxidation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 6478-6483.	7.1	664
13	The anaerobic oxidation of ammonium. <i>FEMS Microbiology Reviews</i> , 1998, 22, 421-437.	8.6	660
14	Anaerobic oxidation of ammonium is a biologically mediated process. <i>Applied and Environmental Microbiology</i> , 1995, 61, 1246-1251.	3.1	655
15	Molecular Evidence for Genus Level Diversity of Bacteria Capable of Catalyzing Anaerobic Ammonium Oxidation. <i>Systematic and Applied Microbiology</i> , 2000, 23, 93-106.	2.8	625
16	<i>Candidatus Scalindia brodae</i> , sp. nov., <i>Candidatus Scalindia wagneri</i> , sp. nov., Two New Species of Anaerobic Ammonium Oxidizing Bacteria. <i>Systematic and Applied Microbiology</i> , 2003, 26, 529-538.	2.8	535
17	Microbiology and application of the anaerobic ammonium oxidation (anammox™) process. <i>Current Opinion in Biotechnology</i> , 2001, 12, 283-288.	6.6	534
18	<i>Candidatus Anammoxoglobus propionicus</i> , a new propionate oxidizing species of anaerobic ammonium oxidizing bacteria. <i>Systematic and Applied Microbiology</i> , 2007, 30, 39-49.	2.8	511

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19	Completely autotrophic nitrogen removal over nitrite in one single reactor. <i>Water Research</i> , 2002, 36, 2475-2482.	11.3	508
20	Evaluation of activity and inhibition effects on Anammox process by batch tests based on the nitrogen gas production. <i>Enzyme and Microbial Technology</i> , 2007, 40, 859-865.	3.2	480
21	Archaea catalyze iron-dependent anaerobic oxidation of methane. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 12792-12796.	7.1	470
22	Anammox bacteria disguised as denitrifiers: nitrate reduction to dinitrogen gas via nitrite and ammonium. <i>Environmental Microbiology</i> , 2007, 9, 635-642.	3.8	462
23	Ammonium removal from concentrated waste streams with the anaerobic ammonium oxidation (Anammox) process in different reactor configurations. <i>Water Research</i> , 1997, 31, 1955-1962.	11.3	456
24	Enrichment and Molecular Detection of Denitrifying Methanotrophic Bacteria of the NC10 Phylum. <i>Applied and Environmental Microbiology</i> , 2009, 75, 3656-3662.	3.1	446
25	Biochemistry and molecular biology of anammox bacteria. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 2009, 44, 65-84.	5.2	441
26	How to make a living from anaerobic ammonium oxidation. <i>FEMS Microbiology Reviews</i> , 2013, 37, 428-461.	8.6	433
27	Rare earth metals are essential for methanotrophic life in volcanic mudpots. <i>Environmental Microbiology</i> , 2014, 16, 255-264.	3.8	433
28	Environmental, genomic and taxonomic perspectives on methanotrophic <i>Verrucomicrobia</i> . <i>Environmental Microbiology Reports</i> , 2009, 1, 293-306.	2.4	431
29	Linearly concatenated cyclobutane lipids form a dense bacterial membrane. <i>Nature</i> , 2002, 419, 708-712.	27.8	426
30	Methanogenesis from acetate: a comparison of the acetate metabolism in <i>Methanotrix soehngenii</i> and <i>Methanosarcina</i> spp.. <i>FEMS Microbiology Letters</i> , 1992, 88, 181-198.	1.8	411
31	New concepts of microbial treatment processes for the nitrogen removal in wastewater. <i>FEMS Microbiology Reviews</i> , 2003, 27, 481-492.	8.6	407
32	Evidence for complete denitrification in a benthic foraminifer. <i>Nature</i> , 2006, 443, 93-96.	27.8	407
33	Denitrifying bacteria anaerobically oxidize methane in the absence of <i>Archaea</i> . <i>Environmental Microbiology</i> , 2008, 10, 3164-3173.	3.8	404
34	Dynamics of nitric oxide and nitrous oxide emission during full-scale reject water treatment. <i>Water Research</i> , 2008, 42, 812-826.	11.3	394
35	Methanotrophy below pH 1 by a new <i>Verrucomicrobia</i> species. <i>Nature</i> , 2007, 450, 874-878.	27.8	388
36	<i>Candidatus Brocadia fulgida</i> TM : an autofluorescent anaerobic ammonium oxidizing bacterium. <i>FEMS Microbiology Ecology</i> , 2008, 63, 46-55.	2.7	388

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37	Methanotrophic symbionts provide carbon for photosynthesis in peat bogs. <i>Nature</i> , 2005, 436, 1153-1156.	27.8	379
38	Genome-based microbial ecology of anammox granules in a full-scale wastewater treatment system. <i>Nature Communications</i> , 2016, 7, 11172.	12.8	373
39	Effects of aerobic and microaerobic conditions on anaerobic ammonium-oxidizing (anammox) sludge. <i>Applied and Environmental Microbiology</i> , 1997, 63, 2446-2448.	3.1	365
40	Methane Feedbacks to the Global Climate System in a Warmer World. <i>Reviews of Geophysics</i> , 2018, 56, 207-250.	23.0	354
41	Propionate Oxidation by and Methanol Inhibition of Anaerobic Ammonium-Oxidizing Bacteria. <i>Applied and Environmental Microbiology</i> , 2005, 71, 1066-1071.	3.1	353
42	Cell compartmentalisation in planctomycetes: novel types of structural organisation for the bacterial cell. <i>Archives of Microbiology</i> , 2001, 175, 413-429.	2.2	334
43	Biomarkers for In Situ Detection of Anaerobic Ammonium-Oxidizing (Anammox) Bacteria. <i>Applied and Environmental Microbiology</i> , 2005, 71, 1677-1684.	3.1	325
44	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.	3.5	313
45	Anaerobic ammonium-oxidizing bacteria in marine environments: widespread occurrence but low diversity. <i>Environmental Microbiology</i> , 2007, 9, 1476-1484.	3.8	307
46	High-level functional expression of a fungal xylose isomerase: the key to efficient ethanolic fermentation of xylose by <i>Saccharomyces cerevisiae</i> . <i>FEMS Yeast Research</i> , 2003, 4, 69-78.	2.3	300
47	Towards a more sustainable municipal wastewater treatment system. <i>Water Science and Technology</i> , 1997, 35, 171-180.	2.5	294
48	CANON and Anammox in a gas-lift reactor. <i>FEMS Microbiology Letters</i> , 2003, 218, 339-344.	1.8	287
49	Anaerobic Oxidation of Methane and Ammonium. <i>Annual Review of Microbiology</i> , 2004, 58, 99-117.	7.3	285
50	Metabolic pathway of anaerobic ammonium oxidation on the basis of ¹⁵ N studies in a fluidized bed reactor. <i>Microbiology (United Kingdom)</i> , 1997, 143, 2415-2421.	1.8	279
51	Hotspots of anaerobic ammonium oxidation at land-freshwater interfaces. <i>Nature Geoscience</i> , 2013, 6, 103-107.	12.9	260
52	Anaerobic ammonia oxidation in a fertilized paddy soil. <i>ISME Journal</i> , 2011, 5, 1905-1912.	9.8	259
53	Nitrogen Removal by a Nitrification-Anammox Bioreactor at Low Temperature. <i>Applied and Environmental Microbiology</i> , 2013, 79, 2807-2812.	3.1	258
54	A microdiversity study of anammox bacteria reveals a novel <i>Candidatus</i> <i>Scalindua</i> phylotype in marine oxygen minimum zones. <i>Environmental Microbiology</i> , 2008, 10, 3106-3119.	3.8	250

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55	Effect of Dynamic Process Conditions on Nitrogen Oxides Emission from a Nitrifying Culture. <i>Environmental Science & Technology</i> , 2008, 42, 429-435.	10.0	250
56	The metagenome of the marine anammox bacterium <i>Candidatus Scalindua profunda</i> ™ illustrates the versatility of this globally important nitrogen cycle bacterium. <i>Environmental Microbiology</i> , 2013, 15, 1275-1289.	3.8	246
57	Simultaneous partial nitrification and anammox at low temperature with granular sludge. <i>Water Research</i> , 2014, 66, 111-121.	11.3	244
58	Nitrous oxide production by <i>Alcaligenes faecalis</i> under transient and dynamic aerobic and anaerobic conditions. <i>Applied and Environmental Microbiology</i> , 1996, 62, 2421-2426.	3.1	244
59	The anammoxosome: an intracytoplasmic compartment in anammox bacteria. <i>FEMS Microbiology Letters</i> , 2004, 233, 7-13.	1.8	243
60	Reverse Methanogenesis and Respiration in Methanotrophic Archaea. <i>Archaea</i> , 2017, 2017, 1-22.	2.3	240
61	Adaptation of a freshwater anammox population to high salinity wastewater. <i>Journal of Biotechnology</i> , 2006, 126, 546-553.	3.8	233
62	Anaerobic ammonium oxidation in an estuarine sediment. <i>Aquatic Microbial Ecology</i> , 2004, 36, 293-304.	1.8	232
63	Enrichment and characterization of marine anammox bacteria associated with global nitrogen gas production. <i>Environmental Microbiology</i> , 2008, 10, 3120-3129.	3.8	231
64	Iron-Mediated Anaerobic Oxidation of Methane in Brackish Coastal Sediments. <i>Environmental Science & Technology</i> , 2015, 49, 277-283.	10.0	230
65	Hydrazine Synthase, a Unique Phylomarker with Which To Study the Presence and Biodiversity of Anammox Bacteria. <i>Applied and Environmental Microbiology</i> , 2012, 78, 752-758.	3.1	228
66	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.	3.8	227
67	Global prevalence of methane oxidation by symbiotic bacteria in peat-moss ecosystems. <i>Nature Geoscience</i> , 2010, 3, 617-621.	12.9	227
68	Anaerobic Ammonium-Oxidizing Bacteria: Unique Microorganisms with Exceptional Properties. <i>Microbiology and Molecular Biology Reviews</i> , 2012, 76, 585-596.	6.6	220
69	The microbial nitrogen cycle. <i>Environmental Microbiology</i> , 2008, 10, 2903-2909.	3.8	204
70	Co-occurrence and distribution of nitrite-dependent anaerobic ammonium and methane-oxidizing bacteria in a paddy soil. <i>FEMS Microbiology Letters</i> , 2012, 336, 79-88.	1.8	201
71	Intensive nitrogen loss over the Omani Shelf due to anammox coupled with dissimilatory nitrite reduction to ammonium. <i>ISME Journal</i> , 2011, 5, 1660-1670.	9.8	200
72	Stability of the ANAMMOX process in a gas-lift reactor and a SBR. <i>Journal of Biotechnology</i> , 2004, 110, 159-170.	3.8	194

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73	Pyrosequencing of 16S rRNA gene amplicons to study the microbiota in the gastrointestinal tract of carp (<i>Cyprinus carpio</i> L.). <i>AMB Express</i> , 2011, 1, 41.	3.0	186
74	Anaerobic Oxidization of Methane in a Minerotrophic Peatland: Enrichment of Nitrite-Dependent Methane-Oxidizing Bacteria. <i>Applied and Environmental Microbiology</i> , 2012, 78, 8657-8665.	3.1	183
75	The occurrence of hopanoids in planctomycetes: implications for the sedimentary biomarker record. <i>Organic Geochemistry</i> , 2004, 35, 561-566.	1.8	179
76	Combined structural and chemical analysis of the anammoxosome: A membrane-bounded intracytoplasmic compartment in anammox bacteria. <i>Journal of Structural Biology</i> , 2008, 161, 401-410.	2.8	176
77	Environmental detection of octahaem cytochrome <i>c</i> hydroxylamine/hydrazine oxidoreductase genes of aerobic and anaerobic ammonium-oxidizing bacteria. <i>Environmental Microbiology</i> , 2008, 10, 3140-3149.	3.8	175
78	Anammox Growth Physiology, Cell Biology, and Metabolism. <i>Advances in Microbial Physiology</i> , 2012, 60, 211-262.	2.4	175
79	Anammox Bacterial Abundance, Activity, and Contribution in Riparian Sediments of the Pearl River Estuary. <i>Environmental Science & Technology</i> , 2012, 46, 8834-8842.	10.0	175
80	Degradation of 1,4-dichlorobenzene by <i>Alcaligenes</i> sp. strain A175. <i>Applied and Environmental Microbiology</i> , 1986, 52, 1374-1381.	3.1	175
81	Nitrogen isotope effects induced by anammox bacteria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 18994-18999.	7.1	174
82	Kinetics, diffusional limitation and microscale distribution of chemistry and organisms in a CANON reactor. <i>FEMS Microbiology Ecology</i> , 2005, 51, 247-256.	2.7	170
83	A Metagenomics-Based Metabolic Model of Nitrate-Dependent Anaerobic Oxidation of Methane by <i>Methanoperedens</i> -Like Archaea. <i>Frontiers in Microbiology</i> , 2015, 6, 1423.	3.5	170
84	Extracellular electron transfer-dependent anaerobic oxidation of ammonium by anammox bacteria. <i>Nature Communications</i> , 2020, 11, 2058.	12.8	168
85	Novel principles in the microbial conversion of nitrogen compounds. <i>Antonie Van Leeuwenhoek</i> , 1997, 71, 75-93.	1.7	167
86	Cultivation and functional characterization of 79 planctomycetes uncovers their unique biology. <i>Nature Microbiology</i> , 2020, 5, 126-140.	13.3	164
87	1994-2004: 10 years of research on the anaerobic oxidation of ammonium. <i>Biochemical Society Transactions</i> , 2005, 33, 119-123.	3.4	163
88	Linking Ultrastructure and Function in Four Genera of Anaerobic Ammonium-Oxidizing Bacteria: Cell Plan, Glycogen Storage, and Localization of Cytochrome <i>c</i> Proteins. <i>Journal of Bacteriology</i> , 2008, 190, 708-717.	2.2	163
89	Identification and quantification of anammox bacteria in eight nitrogen removal reactors. <i>Water Research</i> , 2010, 44, 5014-5020.	11.3	161
90	Expanding the Verrucomicrobial Methanotrophic World: Description of Three Novel Species of <i>Methylacidimicrobium</i> gen. nov. <i>Applied and Environmental Microbiology</i> , 2014, 80, 6782-6791.	3.1	161

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91	Diversity and enrichment of nitrite-dependent anaerobic methane oxidizing bacteria from wastewater sludge. <i>Applied Microbiology and Biotechnology</i> , 2011, 92, 845-854.	3.6	157
92	Autotrophic Methanotrophy in Verrucomicrobia: <i>Methylacidiphilum fumariolicum</i> SolV Uses the Calvin-Benson-Bassham Cycle for Carbon Dioxide Fixation. <i>Journal of Bacteriology</i> , 2011, 193, 4438-4446.	2.2	157
93	Anaerobic ammonium oxidation by marine and freshwater planctomycete-like bacteria. <i>Applied Microbiology and Biotechnology</i> , 2003, 63, 107-114.	3.6	156
94	Denitrification and ammonia oxidation by <i>Nitrosomonas europaea</i> wild-type, and NirK- and NorB-deficient mutants. <i>Microbiology (United Kingdom)</i> , 2004, 150, 4107-4114.	1.8	155
95	Potential roles of anaerobic ammonium and methane oxidation in the nitrogen cycle of wetland ecosystems. <i>Applied Microbiology and Biotechnology</i> , 2010, 86, 1043-1055.	3.6	155
96	Detection and widespread distribution of the <i>nrfA</i> gene encoding nitrite reduction to ammonia, a short circuit in the biological nitrogen cycle that competes with denitrification. <i>FEMS Microbiology Ecology</i> , 2004, 49, 433-443.	2.7	154
97	A new intra-aerobic metabolism in the nitrite-dependent anaerobic methane-oxidizing bacterium <i>Candidatus</i> <i>Methylomirabilis oxyfera</i> TM . <i>Biochemical Society Transactions</i> , 2011, 39, 243-248.	3.4	153
98	Stable Carbon Isotopic Fractionations Associated with Inorganic Carbon Fixation by Anaerobic Ammonium-Oxidizing Bacteria. <i>Applied and Environmental Microbiology</i> , 2004, 70, 3785-3788.	3.1	151
99	Structural identification of ladderane and other membrane lipids of planctomycetes capable of anaerobic ammonium oxidation (anammox). <i>FEBS Journal</i> , 2005, 272, 4270-4283.	4.7	150
100	Whole-genome analysis of the ammonia-oxidizing bacterium, <i>Nitrosomonas eutropha</i> C91: implications for niche adaptation. <i>Environmental Microbiology</i> , 2007, 9, 2993-3007.	3.8	150
101	Nitrate- and nitrite-dependent anaerobic oxidation of methane. <i>Environmental Microbiology Reports</i> , 2016, 8, 941-955.	2.4	150
102	Enrichment of Anammox biomass from municipal activated sludge: experimental and modelling results. <i>Journal of Chemical Technology and Biotechnology</i> , 2004, 79, 1421-1428.	3.2	149
103	A novel family of functional operons encoding methane/ammonia monooxygenase-related proteins in gammaproteobacterial methanotrophs. <i>Environmental Microbiology Reports</i> , 2011, 3, 91-100.	2.4	149
104	Evolution of an octahaem cytochrome <i>c</i> protein family that is key to aerobic and anaerobic ammonia oxidation by bacteria. <i>Environmental Microbiology</i> , 2008, 10, 3150-3163.	3.8	147
105	Simultaneous Nitrite-Dependent Anaerobic Methane and Ammonium Oxidation Processes. <i>Applied and Environmental Microbiology</i> , 2011, 77, 6802-6807.	3.1	147
106	Presence and activity of anaerobic ammonium-oxidizing bacteria at deep-sea hydrothermal vents. <i>ISME Journal</i> , 2009, 3, 117-123.	9.8	145
107	<i>pmoA</i> Primers for Detection of Anaerobic Methanotrophs. <i>Applied and Environmental Microbiology</i> , 2011, 77, 3877-3880.	3.1	145
108	Effect of oxygen on the anaerobic methanotroph <i>Candidatus</i> <i>Methylomirabilis oxyfera</i> TM : kinetic and transcriptional analysis. <i>Environmental Microbiology</i> , 2012, 14, 1024-1034.	3.8	142

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109	Acetate threshold values and acetate activating enzymes in methanogenic bacteria. <i>FEMS Microbiology Letters</i> , 1990, 73, 339-344.	1.8	137
110	Enrichment of Anammox from Activated Sludge and Its Application in the CANON Process. <i>Microbial Ecology</i> , 2005, 49, 236-244.	2.8	136
111	Involvement of a Novel Hydroxylamine Oxidoreductase in Anaerobic Ammonium Oxidation. <i>Biochemistry</i> , 2000, 39, 5405-5412.	2.5	135
112	Emission of nitrous oxide and nitric oxide from a full-scale single-stage nitritation-anammox reactor. <i>Water Science and Technology</i> , 2009, 60, 3211-3217.	2.5	135
113	Metagenomic analysis of anammox communities in three different microbial aggregates. <i>Environmental Microbiology</i> , 2016, 18, 2979-2993.	3.8	133
114	Microbial and Physicochemical Characteristics of Compact Anaerobic Ammonium-Oxidizing Granules in an Upflow Anaerobic Sludge Blanket Reactor. <i>Applied and Environmental Microbiology</i> , 2010, 76, 2652-2656.	3.1	131
115	The inner workings of the hydrazine synthase multiprotein complex. <i>Nature</i> , 2015, 527, 394-397.	27.8	131
116	Aerobic and anaerobic ammonia oxidizing bacteria – “competitors or natural partners?”. <i>FEMS Microbiology Ecology</i> , 2002, 39, 175-181.	2.7	130
117	Competition and coexistence of aerobic ammonium- and nitrite-oxidizing bacteria at low oxygen concentrations. <i>Applied Microbiology and Biotechnology</i> , 2005, 68, 808-817.	3.6	130
118	The bacterial diversity in an anaerobic ammonium-oxidizing (anammox) reactor community. <i>Systematic and Applied Microbiology</i> , 2009, 32, 278-289.	2.8	124
119	Anammox Bacterial Abundance, Biodiversity and Activity in a Constructed Wetland. <i>Environmental Science & Technology</i> , 2011, 45, 9951-9958.	10.0	124
120	Bacterial oxygen production in the dark. <i>Frontiers in Microbiology</i> , 2012, 3, 273.	3.5	119
121	Xylose metabolism in the anaerobic fungus <i>Piromyces</i> sp. strain E2 follows the bacterial pathway. <i>Archives of Microbiology</i> , 2003, 180, 134-141.	2.2	117
122	Enrichment and physiological characterization of a novel comammox <i>Nitrospira</i> indicates ammonium inhibition of complete nitrification. <i>ISME Journal</i> , 2021, 15, 1010-1024.	9.8	117
123	Physiologic and Proteomic Evidence for a Role of Nitric Oxide in Biofilm Formation by <i>Nitrosomonas europaea</i> and Other Ammonia Oxidizers. <i>Journal of Bacteriology</i> , 2004, 186, 2781-2788.	2.2	116
124	Diversity and abundance of aerobic and anaerobic ammonium-oxidizing bacteria in freshwater sediments of the Xinyi River (China). <i>Environmental Microbiology</i> , 2007, 9, 2375-2382.	3.8	116
125	Decreased N ₂ O reduction by low soil pH causes high N ₂ O emissions in a riparian ecosystem. <i>Geobiology</i> , 2011, 9, 294-300.	2.4	113
126	Iron assimilation and utilization in anaerobic ammonium oxidizing bacteria. <i>Current Opinion in Chemical Biology</i> , 2017, 37, 129-136.	6.1	113

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127	Oxidative and reductive acetyl CoA/carbon monoxide dehydrogenase pathway in <i>Desulfobacterium autotrophicum</i> . <i>Archives of Microbiology</i> , 1988, 151, 84-89.	2.2	112
128	Nitrous oxide (N ₂ O) production by <i>Alcaligenes faecalis</i> during feast and famine regimes. <i>Water Research</i> , 2000, 34, 2080-2088.	11.3	110
129	The metagenomic basis of anammox metabolism in <i>Candidatus Brocadia fulgida</i> TM . <i>Biochemical Society Transactions</i> , 2011, 39, 1799-1804.	3.4	110
130	Enrichment of denitrifying methanotrophic bacteria for application after direct low-temperature anaerobic sewage treatment. <i>Journal of Hazardous Materials</i> , 2012, 227-228, 164-171.	12.4	110
131	Enrichment of anaerobic nitrate-dependent methanotrophic <i>Candidatus Methanoperedens nitroreducens</i> TM archaea from an Italian paddy field soil. <i>Applied Microbiology and Biotechnology</i> , 2017, 101, 7075-7084.	3.6	110
132	Nitrogen fixation by the verrucomicrobial methanotroph <i>Methylophilum fumarolicum</i> TM SolV. <i>Microbiology (United Kingdom)</i> , 2010, 156, 1052-1059.	1.8	109
133	Hydroxylamine oxidation and subsequent nitrous oxide production by the heterotrophic ammonia oxidizer <i>Alcaligenes faecalis</i> . <i>Applied Microbiology and Biotechnology</i> , 1999, 51, 255-261.	3.6	107
134	New pathways for ammonia conversion in soil and aquatic systems. <i>Plant and Soil</i> , 2001, 230, 9-19.	3.7	107
135	Autotrophic Carbon Dioxide Fixation via the Calvin-Benson-Bassham Cycle by the Denitrifying Methanotroph <i>Candidatus Methylophilum oxyfera</i> . <i>Applied and Environmental Microbiology</i> , 2014, 80, 2451-2460.	3.1	105
136	Nitrogen transforming community in a horizontal subsurface-flow constructed wetland. <i>Water Research</i> , 2015, 74, 203-212.	11.3	104
137	Characterization of Anammox Hydrazine Dehydrogenase, a Key N ₂ -producing Enzyme in the Global Nitrogen Cycle. <i>Journal of Biological Chemistry</i> , 2016, 291, 17077-17092.	3.4	103
138	Nitric oxide-dependent anaerobic ammonium oxidation. <i>Nature Communications</i> , 2019, 10, 1244.	12.8	103
139	New Anaerobic, Ammonium-Oxidizing Community Enriched from Peat Soil. <i>Applied and Environmental Microbiology</i> , 2011, 77, 966-971.	3.1	100
140	Microbial Transformations of Nitrogen, Sulfur, and Iron Dictate Vegetation Composition in Wetlands: A Review. <i>Frontiers in Microbiology</i> , 2012, 3, 156.	3.5	100
141	Mimicking the oxygen minimum zones: stimulating interaction of aerobic archaeal and anaerobic bacterial ammonia oxidizers in a laboratory-scale model system. <i>Environmental Microbiology</i> , 2012, 14, 3146-3158.	3.8	100
142	The urgent need for microbiology literacy in society. <i>Environmental Microbiology</i> , 2019, 21, 1513-1528.	3.8	99
143	Genome Sequence of the Obligate Methanotroph <i>Methylosinus trichosporium</i> Strain OB3b. <i>Journal of Bacteriology</i> , 2010, 192, 6497-6498.	2.2	98
144	Whole-Community Metagenomics in Two Different Anammox Configurations: Process Performance and Community Structure. <i>Environmental Science & Technology</i> , 2017, 51, 4317-4327.	10.0	98

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145	Recent Advances in the Physiology and Genetics of Amino Acid-Producing Bacteria. <i>Critical Reviews in Biotechnology</i> , 1995, 15, 73-103.	9.0	96
146	Isolation and characterization of a novel facultatively alkaliphilic <i>Nitrobacter</i> species, <i>N. alkalicus</i> sp. nov.. <i>Archives of Microbiology</i> , 1998, 170, 345-352.	2.2	95
147	Denitrification at pH 4 by a soil-derived <i>Rhodanobacter</i> -dominated community. <i>Environmental Microbiology</i> , 2010, 12, 3264-3271.	3.8	95
148	Air pollution could drive global dissemination of antibiotic resistance genes. <i>ISME Journal</i> , 2021, 15, 270-281.	9.8	95
149	Isolation and characterization of acetyl-coenzyme A synthetase from <i>Methanothrix soehngenii</i> . <i>Journal of Bacteriology</i> , 1989, 171, 5430-5435.	2.2	94
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282	Nitrification and Anammox with Urea as the Energy Source. <i>Systematic and Applied Microbiology</i> , 2004, 27, 271-278.	2.8	36
283	Anaerobic oxidation of dimethylsulfide and methanethiol in mangrove sediments is dominated by sulfate-reducing bacteria. <i>FEMS Microbiology Ecology</i> , 2009, 70, 483-492.	2.7	36
284	Draft Genome Sequence of <i>Methylomicrobium buryatense</i> Strain 5G, a Haloalkaline-Tolerant Methanotrophic Bacterium. <i>Genome Announcements</i> , 2013, 1, .	0.8	36
285	Signaling ammonium across membranes through an ammonium sensor histidine kinase. <i>Nature Communications</i> , 2018, 9, 164.	12.8	36
286	Description of the novel planctomycetal genus <i>Bremerella</i> , containing <i>Bremerella volcania</i> sp. nov., isolated from an active volcanic site, and reclassification of <i>Blastopirellula cremea</i> as <i>Bremerella cremea</i> comb. nov.. <i>Antonie Van Leeuwenhoek</i> , 2020, 113, 1823-1837.	1.7	36
287	Regulation of phospho(enol)-pyruvate- and oxaloacetate-converting enzymes in <i>Corynebacterium glutamicum</i> . <i>Applied Microbiology and Biotechnology</i> , 1994, 41, 47-52.	3.6	36
288	Metabolic Regulation of Ca^{2+} . <i>Methylacidiphilum fumarolicum</i> Δ SolV Cells Grown Under Different Nitrogen and Oxygen Limitations. <i>Frontiers in Microbiology</i> , 2012, 3, 266.	3.5	35

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290	<i>Rhodopirellula heiligendammensis</i> sp. nov., <i>Rhodopirellula pilleata</i> sp. nov., and <i>Rhodopirellula solitaria</i> sp. nov. isolated from natural or artificial marine surfaces in Northern Germany and California, USA, and emended description of the genus <i>Rhodopirellula</i> . <i>Antonie Van Leeuwenhoek</i> , 2020, 113, 1737-1750.	1.7	35
291	A serpin in the cellulosome of the anaerobic fungus <i>Piromyces</i> sp. strain E2. <i>Mycological Research</i> , 2008, 112, 999-1006.	2.5	34
292	Branchial nitrogen cycle symbionts can remove ammonia in fish gills. <i>Environmental Microbiology Reports</i> , 2016, 8, 590-594.	2.4	34
293	Cultivation and Transcriptional Analysis of a Canonical <i>Nitrospira</i> Under Stable Growth Conditions. <i>Frontiers in Microbiology</i> , 2019, 10, 1325.	3.5	34
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297	Metabolic Overlap in Environmentally Diverse Microbial Communities. <i>Frontiers in Genetics</i> , 2019, 10, 989.	2.3	33
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299	Purification and properties of oxaloacetate decarboxylase from <i>Corynebacterium glutamicum</i> . <i>Antonie Van Leeuwenhoek</i> , 1995, 67, 221-227.	1.7	31
300	A comparative genomics study of genetic products potentially encoding ladderane lipid biosynthesis. <i>Biology Direct</i> , 2009, 4, 8.	4.6	31
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302	Nitrogen loss by anaerobic ammonium oxidation in unconfined aquifer soils. <i>Scientific Reports</i> , 2017, 7, 40173.	3.3	31
303	A novel marine nitrite-oxidizing <i>Nitrospira</i> species from Dutch coastal North Sea water. <i>Frontiers in Microbiology</i> , 2013, 4, 60.	3.5	30
304	Nutrient and acetate amendment leads to acetoclastic methane production and microbial community change in a non-producing Australian coal well. <i>Microbial Biotechnology</i> , 2018, 11, 626-638.	4.2	30
305	Methanogenic archaea use a bacteria-like methyltransferase system to demethoxylate aromatic compounds. <i>ISME Journal</i> , 2021, 15, 3549-3565.	9.8	30
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314	Anaerobic methanotrophic archaea of the ANME-2d clade feature lipid composition that differs from other ANME archaea. <i>FEMS Microbiology Ecology</i> , 2019, 95, .	2.7	28
315	A mixed ladderane/n-alkyl glycerol diether membrane lipid in an anaerobic ammonium-oxidizing bacterium. <i>Chemical Communications</i> , 2004, , 2590-2591.	4.1	27
316	Evidence for the involvement of betaproteobacterial Thiobacilli in the nitrate-dependent oxidation of iron sulfide minerals. <i>FEMS Microbiology Ecology</i> , 2006, 58, 439-448.	2.7	27
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322	Interactions between anaerobic ammonium- and methane-oxidizing microorganisms in a laboratory-scale sequencing batch reactor. <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 6783-6795.	3.6	26
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345	Complete conversion of nitrate into dinitrogen gas in co-cultures of denitrifying bacteria. <i>Biochemical Society Transactions</i> , 2005, 33, 205-209.	3.4	21
346	Biophysical properties of membrane lipids of anammox bacteria: II. Impact of temperature and bacteriohopanoids. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2009, 1788, 1452-1457.	2.6	20
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348	Three Planctomycetes isolated from biotic surfaces in the Mediterranean Sea and the Pacific Ocean constitute the novel species <i>Symmachiella dynata</i> gen. nov., sp. nov. and <i>Symmachiella macrocystis</i> sp. nov.. <i>Antonie Van Leeuwenhoek</i> , 2020, 113, 1965-1977.	1.7	20
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359	Hydrogen and Carbon Monoxide-Utilizing <i>Kyrpidia spormannii</i> Species From Pantelleria Island, Italy. <i>Frontiers in Microbiology</i> , 2020, 11, 951.	3.5	18
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374	Metabolic Engineering of <i>Corynebacterium glutamicum</i> . <i>Annals of the New York Academy of Sciences</i> , 1994, 721, 12-29.	3.8	15
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378	<i>Thalassoglobus polymorphus</i> sp. nov., a novel Planctomycete isolated close to a public beach of Mallorca Island. <i>Antonie Van Leeuwenhoek</i> , 2020, 113, 1915-1926.	1.7	15

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398	Draft genome of a novel methanotrophic <i>Methylobacter</i> sp. from the volcanic soils of Pantelleria Island. <i>Antonie Van Leeuwenhoek</i> , 2021, 114, 313-324.	1.7	12
399	Universal activity-based labeling method for ammonia- and alkane-oxidizing bacteria. <i>ISME Journal</i> , 2022, 16, 958-971.	9.8	12
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402	Effects of a long-term anoxic warming scenario on microbial community structure and functional potential of permafrost-affected soil. <i>Permafrost and Periglacial Processes</i> , 2021, 32, 641-656.	3.4	11
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