

James I Prosser

List of Publications by Year in descending order

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229
papers

30,738
citations

3933

88
h-index

4885

168
g-index

240
all docs

240
docs citations

240
times ranked

19896
citing authors

#	ARTICLE	IF	CITATIONS
1	Archaea predominate among ammonia-oxidizing prokaryotes in soils. <i>Nature</i> , 2006, 442, 806-809.	27.8	2,144
2	The influence of soil pH on the diversity, abundance and transcriptional activity of ammonia oxidizing archaea and bacteria. <i>Environmental Microbiology</i> , 2008, 10, 2966-2978.	3.8	1,104
3	Soil bacterial networks are less stable under drought than fungal networks. <i>Nature Communications</i> , 2018, 9, 3033.	12.8	992
4	Plant host habitat and root exudates shape soil bacterial community structure. <i>ISME Journal</i> , 2008, 2, 1221-1230.	9.8	958
5	Archaeal and bacterial ammonia-oxidisers in soil: the quest for niche specialisation and differentiation. <i>Trends in Microbiology</i> , 2012, 20, 523-531.	7.7	853
6	The role of ecological theory in microbial ecology. <i>Nature Reviews Microbiology</i> , 2007, 5, 384-392.	28.6	796
7	Analysis of ammonia-oxidizing bacteria of the beta subdivision of the class Proteobacteria in coastal sand dunes by denaturing gradient gel electrophoresis and sequencing of PCR-amplified 16S ribosomal DNA fragments. <i>Applied and Environmental Microbiology</i> , 1997, 63, 1489-1497.	3.1	711
8	Growth, activity and temperature responses of ammonia-oxidizing archaea and bacteria in soil microcosms. <i>Environmental Microbiology</i> , 2008, 10, 1357-1364.	3.8	658
9	Autotrophic Nitrification in Bacteria. <i>Advances in Microbial Physiology</i> , 1990, 30, 125-181.	2.4	636
10	The ecological coherence of high bacterial taxonomic ranks. <i>Nature Reviews Microbiology</i> , 2010, 8, 523-529.	28.6	562
11	Ammonia concentration determines differential growth of ammonia-oxidising archaea and bacteria in soil microcosms. <i>ISME Journal</i> , 2011, 5, 1067-1071.	9.8	543
12	Relative contributions of archaea and bacteria to aerobic ammonia oxidation in the environment. <i>Environmental Microbiology</i> , 2008, 10, 2931-2941.	3.8	531
13	Temperature sensitivity of soil respiration rates enhanced by microbial community response. <i>Nature</i> , 2014, 513, 81-84.	27.8	528
14	Microbes as Engines of Ecosystem Function: When Does Community Structure Enhance Predictions of Ecosystem Processes?. <i>Frontiers in Microbiology</i> , 2016, 7, 214.	3.5	479
15	Cultivation of an obligate acidophilic ammonia oxidizer from a nitrifying acid soil. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 15892-15897.	7.1	464
16	Bacterial diversity promotes community stability and functional resilience after perturbation. <i>Environmental Microbiology</i> , 2005, 7, 301-313.	3.8	429
17	Niche specialization of terrestrial archaeal ammonia oxidizers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 21206-21211.	7.1	402
18	Molecular diversity of soil and marine 16S rRNA gene sequences related to beta-subgroup ammonia-oxidizing bacteria. <i>Applied and Environmental Microbiology</i> , 1996, 62, 4147-4154.	3.1	378

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19	Molecular Analysis of Bacterial Community Structure and Diversity in Unimproved and Improved Upland Grass Pastures. <i>Applied and Environmental Microbiology</i> , 1999, 65, 1721-1730.	3.1	370
20	Links between Ammonia Oxidizer Community Structure, Abundance, and Nitrification Potential in Acidic Soils. <i>Applied and Environmental Microbiology</i> , 2011, 77, 4618-4625.	3.1	357
21	Archaea rather than bacteria control nitrification in two agricultural acidic soils. <i>FEMS Microbiology Ecology</i> , 2010, 74, 566-574.	2.7	346
22	Autotrophic ammonia oxidation by soil thaumarchaea. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 17240-17245.	7.1	305
23	Impact of Protozoan Grazing on Bacterial Community Structure in Soil Microcosms. <i>Applied and Environmental Microbiology</i> , 2002, 68, 6094-6105.	3.1	300
24	<i>Nitrosospora</i> spp. can produce nitrous oxide via a nitrifier denitrification pathway. <i>Environmental Microbiology</i> , 2006, 8, 214-222.	3.8	287
25	Decline of soil microbial diversity does not influence the resistance and resilience of key soil microbial functional groups following a model disturbance. <i>Environmental Microbiology</i> , 2007, 9, 2211-2219.	3.8	286
26	The consequences of niche and physiological differentiation of archaeal and bacterial ammonia oxidisers for nitrous oxide emissions. <i>ISME Journal</i> , 2018, 12, 1084-1093.	9.8	274
27	Impacts of Soil Faunal Community Composition on Model Grassland Ecosystems. <i>Science</i> , 2002, 298, 615-618.	12.6	260
28	Maintenance of soil functioning following erosion of microbial diversity. <i>Environmental Microbiology</i> , 2006, 8, 2162-2169.	3.8	251
29	Numerical Analysis of Grassland Bacterial Community Structure under Different Land Management Regimens by Using 16S Ribosomal DNA Sequence Data and Denaturing Gradient Gel Electrophoresis Banding Patterns. <i>Applied and Environmental Microbiology</i> , 2001, 67, 4554-4559.	3.1	247
30	Differential photoinhibition of bacterial and archaeal ammonia oxidation. <i>FEMS Microbiology Letters</i> , 2012, 327, 41-46.	1.8	245
31	Analysis of $\hat{1}^2$ -Subgroup Proteobacterial Ammonia Oxidizer Populations in Soil by Denaturing Gradient Gel Electrophoresis Analysis and Hierarchical Phylogenetic Probing. <i>Applied and Environmental Microbiology</i> , 1998, 64, 2958-2965.	3.1	245
32	Archaea produce lower yields of N_{2O} than bacteria during aerobic ammonia oxidation in soil. <i>Environmental Microbiology</i> , 2017, 19, 4829-4837.	3.8	243
33	Identification of active methylotroph populations in an acidic forest soil by stable-isotope probing c The GenBank accession numbers for the sequences reported in this paper are AY080911-AY080961.. <i>Microbiology (United Kingdom)</i> , 2002, 148, 2331-2342.	1.8	238
34	Potential bias of fungal 18S rDNA and internal transcribed spacer polymerase chain reaction primers for estimating fungal biodiversity in soil. <i>Environmental Microbiology</i> , 2003, 5, 36-47.	3.8	235
35	Growth of ammonia-oxidizing archaea in soil microcosms is inhibited by acetylene. <i>FEMS Microbiology Ecology</i> , 2009, 70, 99-108.	2.7	235
36	Dispersing misconceptions and identifying opportunities for the use of 'omics' in soil microbial ecology. <i>Nature Reviews Microbiology</i> , 2015, 13, 439-446.	28.6	234

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37	Environmentally-acquired bacteria influence microbial diversity and natural innate immune responses at gut surfaces. <i>BMC Biology</i> , 2009, 7, 79.	3.8	228
38	Replicate or lie. <i>Environmental Microbiology</i> , 2010, 12, 1806-1810.	3.8	227
39	Nitrous oxide production by ammonia oxidizers: Physiological diversity, niche differentiation and potential mitigation strategies. <i>Global Change Biology</i> , 2020, 26, 103-118.	9.5	227
40	EFFECTS OF GRAZING ON MICROBIAL FUNCTIONAL GROUPS INVOLVED IN SOIL N DYNAMICS. <i>Ecological Monographs</i> , 2005, 75, 65-80.	5.4	201
41	Comparative Diversity of Ammonia Oxidizer 16S rRNA Gene Sequences in Native, Tilled, and Successional Soils. <i>Applied and Environmental Microbiology</i> , 1999, 65, 2994-3000.	3.1	200
42	Isolation of <i>Candidatus Nitrosocosmicus franklandus</i> TM , a novel ureolytic soil archaeal ammonia oxidiser with tolerance to high ammonia concentration. <i>FEMS Microbiology Ecology</i> , 2016, 92, fiw057.	2.7	197
43	Effects of management regime and plant species on the enzyme activity and genetic structure of N-fixing, denitrifying and nitrifying bacterial communities in grassland soils. <i>Environmental Microbiology</i> , 2006, 8, 1005-1016.	3.8	196
44	Grassland Management Regimens Reduce Small-Scale Heterogeneity and Species Diversity of β -Proteobacterial Ammonia Oxidizer Populations. <i>Applied and Environmental Microbiology</i> , 2002, 68, 20-30.	3.1	187
45	Molecular analysis of enrichment cultures of marine ammonia oxidisers. <i>FEMS Microbiology Letters</i> , 1994, 120, 363-367.	1.8	180
46	Autotrophic Ammonia Oxidation at Low pH through Urea Hydrolysis. <i>Applied and Environmental Microbiology</i> , 2001, 67, 2952-2957.	3.1	180
47	Thaumarchaeal Ammonia Oxidation in an Acidic Forest Peat Soil Is Not Influenced by Ammonium Amendment. <i>Applied and Environmental Microbiology</i> , 2010, 76, 7626-7634.	3.1	180
48	Changes in the community structure and activity of betaproteobacterial ammonia-oxidizing sediment bacteria along a freshwater-marine gradient. <i>Environmental Microbiology</i> , 2006, 8, 684-696.	3.8	172
49	Effects of Agronomic Treatments on Structure and Function of Ammonia-Oxidizing Communities. <i>Applied and Environmental Microbiology</i> , 2000, 66, 5410-5418.	3.1	166
50	Diversity of fungi in organic soils under a moorland - Scots pine (<i>Pinus sylvestris</i> L.) gradient. <i>Environmental Microbiology</i> , 2003, 5, 1121-1132.	3.8	166
51	Stimulation of thaumarchaeal ammonia oxidation by ammonia derived from organic nitrogen but not added inorganic nitrogen. <i>FEMS Microbiology Ecology</i> , 2012, 80, 114-123.	2.7	160
52	Cell density-regulated recovery of starved biofilm populations of ammonia-oxidizing bacteria. <i>Applied and Environmental Microbiology</i> , 1997, 63, 2281-2286.	3.1	160
53	Molecular marker systems for detection of genetically engineered micro-organisms in the environment. <i>Microbiology (United Kingdom)</i> , 1994, 140, 5-17.	1.8	156
54	Links between ammonia oxidizer species composition, functional diversity and nitrification kinetics in grassland soils. <i>Environmental Microbiology</i> , 2005, 7, 676-684.	3.8	156

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55	Altitude ammonia-oxidizing bacteria and archaea in soils of Mount Everest. <i>FEMS Microbiology Ecology</i> , 2009, 70, 208-217.	2.7	155
56	Growth Mechanisms and Growth Kinetics of Filamentous Microorganisms. <i>Critical Reviews in Biotechnology</i> , 1991, 10, 253-274.	9.0	154
57	Spatial structure in soil chemical and microbiological properties in an upland grassland. <i>FEMS Microbiology Ecology</i> , 2004, 49, 191-205.	2.7	154
58	Nitrogen Cycling and Community Structure of Proteobacterial β -Subgroup Ammonia-Oxidizing Bacteria within Polluted Marine Fish Farm Sediments. <i>Applied and Environmental Microbiology</i> , 1999, 65, 213-220.	3.1	153
59	Stable isotope probing analysis of the influence of liming on root exudate utilization by soil microorganisms. <i>Environmental Microbiology</i> , 2005, 7, 828-838.	3.8	153
60	Correlation of Methane Production and Functional Gene Transcriptional Activity in a Peat Soil. <i>Applied and Environmental Microbiology</i> , 2009, 75, 6679-6687.	3.1	152
61	Community Structure of Ammonia-Oxidizing Bacteria within Anoxic Marine Sediments. <i>Applied and Environmental Microbiology</i> , 2003, 69, 1359-1371.	3.1	151
62	Bacterial Biodiversity-Ecosystem Functioning Relations Are Modified by Environmental Complexity. <i>PLoS ONE</i> , 2010, 5, e10834.	2.5	149
63	Primary succession of soil Crenarchaeota across a receding glacier foreland. <i>Environmental Microbiology</i> , 2005, 7, 337-347.	3.8	145
64	Links between Plant and Rhizoplane Bacterial Communities in Grassland Soils, Characterized Using Molecular Techniques. <i>Applied and Environmental Microbiology</i> , 2005, 71, 6784-6792.	3.1	144
65	Soil pH regulates the abundance and diversity of Group 1.1c Crenarchaeota. <i>FEMS Microbiology Ecology</i> , 2009, 70, 367-376.	2.7	143
66	Characterisation of terrestrial acidophilic archaeal ammonia oxidisers and their inhibition and stimulation by organic compounds. <i>FEMS Microbiology Ecology</i> , 2014, 89, 542-552.	2.7	141
67	Bacterial Origin and Community Composition in the Barley Phytosphere as a Function of Habitat and Presowing Conditions. <i>Applied and Environmental Microbiology</i> , 2000, 66, 4372-4377.	3.1	140
68	Luminescence-based nonextractive technique for in situ detection of <i>Escherichia coli</i> in soil. <i>Applied and Environmental Microbiology</i> , 1990, 56, 3368-3374.	3.1	140
69	Influence of Inorganic Nitrogen Management Regime on the Diversity of Nitrite-Oxidizing Bacteria in Agricultural Grassland Soils. <i>Applied and Environmental Microbiology</i> , 2005, 71, 8323-8334.	3.1	139
70	A Model for Hyphal Growth and Branching. <i>Journal of General Microbiology</i> , 1979, 111, 153-164.	2.3	136
71	Effects of aboveground grazing on coupling among nitrifier activity, abundance and community structure. <i>ISME Journal</i> , 2008, 2, 221-232.	9.8	134
72	Environmental and spatial characterisation of bacterial community composition in soil to inform sampling strategies. <i>Soil Biology and Biochemistry</i> , 2009, 41, 2292-2298.	8.8	130

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73	Diversity of Bacteria Associated with Natural Aphid Populations. Applied and Environmental Microbiology, 2003, 69, 7216-7223.	3.1	129
74	The Family Nitrosomonadaceae. , 2014, , 901-918.		127
75	Phylogenetic Differences between Particle-Associated and Planktonic Ammonia-Oxidizing Bacteria of the β^2 Subdivision of the Class <i>Proteobacteria</i> in the Northwestern Mediterranean Sea. Applied and Environmental Microbiology, 1999, 65, 779-786.	3.1	127
76	Characterisation of bacterial communities associated with toxic and non-toxic dinoflagellates: <i>Alexandrium</i> spp. and <i>Scrippsiella trochoidea</i> . FEMS Microbiology Ecology, 2001, 37, 161-173.	2.7	126
77	Luminescence-based detection of activity of starved and viable but nonculturable bacteria. Applied and Environmental Microbiology, 1994, 60, 1308-1316.	3.1	124
78	Molecular and functional diversity in soil micro-organisms. Plant and Soil, 2002, 244, 9-17.	3.7	120
79	Establishment of Normal Gut Microbiota Is Compromised under Excessive Hygiene Conditions. PLoS ONE, 2011, 6, e28284.	2.5	120
80	Molecular Analysis of a Bacterial Chitinolytic Community in an Upland Pasture. Applied and Environmental Microbiology, 2002, 68, 5042-5050.	3.1	118
81	Identifying Potential Mechanisms Enabling Acidophily in the Ammonia-Oxidizing Archaeon <i>Candidatus Nitrosotalea devanatterra</i> . Applied and Environmental Microbiology, 2016, 82, 2608-2619.	3.1	117
82	Chemotaxonomic characterisation of the thaumarchaeal lipidome. Environmental Microbiology, 2017, 19, 2681-2700.	3.8	117
83	Ecosystem processes and interactions in a morass of diversity. FEMS Microbiology Ecology, 2012, 81, 507-519.	2.7	111
84	Role of Pore Size Location in Determining Bacterial Activity during Predation by Protozoa in Soil. Applied and Environmental Microbiology, 1995, 61, 3537-3543.	3.1	108
85	Ammonia-oxidising archaea living at low pH: Insights from comparative genomics. Environmental Microbiology, 2017, 19, 4939-4952.	3.8	107
86	Cultivation-independent in situ molecular analysis of bacteria involved in degradation of pentachlorophenol in soil. Environmental Microbiology, 2005, 7, 1349-1360.	3.8	104
87	Abiotic Conversion of Extracellular NH_2OH Contributes to N_2O Emission during Ammonia Oxidation. Environmental Science & Technology, 2017, 51, 13122-13132.	10.0	104
88	Coupling of diversification and pH adaptation during the evolution of terrestrial Thaumarchaeota. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 9370-9375.	7.1	98
89	The impact of zero-valent iron nanoparticles on a river water bacterial community. Journal of Hazardous Materials, 2010, 184, 73-80.	12.4	97
90	The impact of grassland management on archaeal community structure in upland pasture rhizosphere soil. Environmental Microbiology, 2003, 5, 152-162.	3.8	96

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91	pH as a Driver for Ammonia-Oxidizing Archaea in Forest Soils. <i>Microbial Ecology</i> , 2015, 69, 879-883.	2.8	95
92	Phylogenetic congruence and ecological coherence in terrestrial Thaumarchaeota. <i>ISME Journal</i> , 2016, 10, 85-96.	9.8	94
93	Identity of active methanotrophs in landfill cover soil as revealed by DNA-stable isotope probing. <i>FEMS Microbiology Ecology</i> , 2007, 62, 12-23.	2.7	92
94	Spatial Analysis of Archaeal Community Structure in Grassland Soil. <i>Applied and Environmental Microbiology</i> , 2003, 69, 7420-7429.	3.1	91
95	Links between methane flux and transcriptional activities of methanogens and methane oxidizers in a blanket peat bog. <i>FEMS Microbiology Ecology</i> , 2010, 73, no-no.	2.7	91
96	Impact of cultivation on characterisation of species composition of soil bacterial communities. <i>FEMS Microbiology Ecology</i> , 2001, 35, 37-48.	2.7	88
97	Relationship between assemblages of mycorrhizal fungi and bacteria on grass roots. <i>Environmental Microbiology</i> , 2008, 10, 534-541.	3.8	86
98	Effect of nitrification inhibitors on the growth and activity of <i>Nitrosotalea devanattera</i> in culture and soil. <i>Soil Biology and Biochemistry</i> , 2013, 62, 129-133.	8.8	86
99	Kinetics of NH_3 oxidation, NO_3^- turnover, N_2O production and electron flow during oxygen depletion in model bacterial and archaeal ammonia oxidisers. <i>Environmental Microbiology</i> , 2017, 19, 4882-4896.	3.8	86
100	Cultivation-based and molecular approaches to characterisation of terrestrial and aquatic nitrifiers. <i>Antonie Van Leeuwenhoek</i> , 2002, 81, 165-179.	1.7	85
101	Steady state and transient growth of autotrophic nitrifying bacteria. <i>Archives of Microbiology</i> , 1987, 147, 73-79.	2.2	81
102	Studying plant-microbe interactions using stable isotope technologies. <i>Current Opinion in Biotechnology</i> , 2006, 17, 98-102.	6.6	78
103	Detection of a Single Genetically Modified Bacterial Cell in Soil by Using Charge Coupled Device-Enhanced Microscopy. <i>Applied and Environmental Microbiology</i> , 1992, 58, 2444-2448.	3.1	78
104	Differential effects of microorganism-invertebrate interactions on benthic nitrogen cycling. <i>FEMS Microbiology Ecology</i> , 2012, 82, 11-22.	2.7	76
105	Plant nitrogen-use strategy as a driver of rhizosphere archaeal and bacterial ammonia oxidiser abundance. <i>FEMS Microbiology Ecology</i> , 2016, 92, fiw091.	2.7	76
106	Abundance and community structure of sulfate reducing prokaryotes in a paddy soil of southern China under different fertilization regimes. <i>Soil Biology and Biochemistry</i> , 2009, 41, 687-694.	8.8	74
107	Plasmid and chromosomally encoded luminescence marker systems for detection of <i>Pseudomonas fluorescens</i> in soil. <i>Molecular Ecology</i> , 1993, 2, 47-54.	3.9	73
108	Ammonium supply rate influences archaeal and bacterial ammonia oxidizers in a wetland soil vertical profile. <i>FEMS Microbiology Ecology</i> , 2010, 74, 302-315.	2.7	72

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109	Effect of earthworms on the community structure of active methanotrophic bacteria in a landfill cover soil. <i>ISME Journal</i> , 2008, 2, 92-104.	9.8	71
110	Resource availability influences the diversity of a functional group of heterotrophic soil bacteria. <i>Environmental Microbiology</i> , 2008, 10, 2245-2256.	3.8	71
111	Nutrient Amendments in Soil DNA Stable Isotope Probing Experiments Reduce the Observed Methanotroph Diversity. <i>Applied and Environmental Microbiology</i> , 2007, 73, 798-807.	3.1	70
112	Ammonia oxidation is not required for growth of Group 1.1c soil Thaumarchaeota. <i>FEMS Microbiology Ecology</i> , 2015, 91, .	2.7	70
113	Phylogeny of nitrite reductase (nirK) and nitric oxide reductase (norB) genes from Nitrosospiraspecies isolated from soil. <i>FEMS Microbiology Letters</i> , 2007, 266, 83-89.	1.8	69
114	Quantitative analysis of ammonia oxidising bacteria using competitive PCR. <i>FEMS Microbiology Ecology</i> , 2000, 32, 167-175.	2.7	63
115	The ribulose-1,5-bisphosphate carboxylase/oxygenase gene cluster of <i>Methylococcus capsulatus</i> (Bath). <i>Archives of Microbiology</i> , 2002, 177, 279-289.	2.2	63
116	Characterization of rhizosphere colonization by luminescent <i>Enterobacter cloacae</i> at the population and single-cell levels. <i>Applied and Environmental Microbiology</i> , 1995, 61, 2950-2957.	3.1	63
117	Differential response of nonadapted ammonia-oxidising archaea and bacteria to drying-rewetting stress. <i>FEMS Microbiology Ecology</i> , 2014, 90, n/a-n/a.	2.7	61
118	Temperature responses of soil ammonia-oxidising archaea depend on pH. <i>Soil Biology and Biochemistry</i> , 2017, 106, 61-68.	8.8	58
119	Matric potential and the survival and activity of a <i>Pseudomonas fluorescens</i> inoculum in soil. <i>Soil Biology and Biochemistry</i> , 1995, 27, 881-892.	8.8	57
120	Luminescence-Based Systems for Detection of Bacteria in the Environment. <i>Critical Reviews in Biotechnology</i> , 1996, 16, 157-183.	9.0	57
121	The application of high-throughput sequencing technology to analysis of amoA phylogeny and environmental niche specialisation of terrestrial bacterial ammonia-oxidisers. <i>Environmental Microbiomes</i> , 2019, 14, 3.	5.0	53
122	Quantification of the presence and activity of specific microorganisms in nature. <i>Molecular Biotechnology</i> , 1997, 7, 103-120.	2.4	52
123	Stable Isotope Probing Analysis of Interactions between Ammonia Oxidizers. <i>Applied and Environmental Microbiology</i> , 2010, 76, 2468-2477.	3.1	50
124	Selective inhibition of ammonia oxidising archaea by simvastatin stimulates growth of ammonia oxidising bacteria. <i>Soil Biology and Biochemistry</i> , 2020, 141, 107673.	8.8	49
125	Models of Microbial Interactions in the Soil. <i>CRC Critical Reviews in Microbiology</i> , 1976, 4, 463-498.	4.8	48
126	Potential luminescence as an indicator of activation of genetically-modified <i>Pseudomonas fluorescens</i> in liquid culture and in soil. <i>Soil Biology and Biochemistry</i> , 1994, 26, 747-755.	8.8	46

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127	Crenarchaeal community assembly and microdiversity in developing soils at two sites associated with deglaciation. <i>Environmental Microbiology</i> , 2006, 8, 1382-1393.	3.8	46
128	Apical hyphal extension in <i>Streptomyces coelicolor</i> A3(2). <i>Journal of General Microbiology</i> , 1990, 136, 1077-1084.	2.3	45
129	Differential response of archaeal and bacterial communities to nitrogen inputs and pH changes in upland pasture rhizosphere soil. <i>Environmental Microbiology</i> , 2004, 6, 861-867.	3.8	44
130	Carbon flow in an upland grassland: effect of liming on the flux of recently photosynthesized carbon to rhizosphere soil. <i>Global Change Biology</i> , 2004, 10, 2100-2108.	9.5	43
131	Protection of <i>Nitrosomonas europaea</i> colonizing clay minerals from inhibition by nitrapyrin. <i>Journal of General Microbiology</i> , 1991, 137, 1923-1929.	2.3	42
132	Molecular analysis of methanogenic archaeal communities in managed and natural upland pasture soils. <i>Global Change Biology</i> , 2003, 9, 1451-1457.	9.5	42
133	Mineralization of Chitin in an estuarine sediment: The importance of the Chitosan pathway. <i>Biochemical Systematics and Ecology</i> , 1991, 19, 395-400.	1.3	41
134	Kinetics of Filamentous Growth and Branching. , 1995, , 301-318.		41
135	Rhizosphere bacterial community composition responds to arbuscular mycorrhiza, but not to reductions in microbial activity induced by foliar cutting. <i>FEMS Microbiology Ecology</i> , 2008, 64, 78-89.	2.7	41
136	The Role of Microbial Community Composition in Controlling Soil Respiration Responses to Temperature. <i>PLoS ONE</i> , 2016, 11, e0165448.	2.5	41
137	Right and left handed helicity of chitin microfibrils in stipe cells in <i>Coprinus cinereus</i> . <i>Protoplasma</i> , 1991, 165, 64-70.	2.1	40
138	Effect of anoxia and high sulphide concentrations on heterotrophic microbial communities in reduced surface sediments (Black Spots) in sandy intertidal flats of the German Wadden Sea. <i>FEMS Microbiology Ecology</i> , 2003, 44, 291-301.	2.7	40
139	Comparison of PCR primer-based strategies for characterization of ammonia oxidizer communities in environmental samples. <i>FEMS Microbiology Ecology</i> , 2006, 56, 482-493.	2.7	40
140	The life beneath our feet. <i>Nature</i> , 2013, 494, 40-41.	27.8	40
141	Inhibition of Ammonium Oxidation by Nitrapyrin in Soil and Liquid Culture. <i>Applied and Environmental Microbiology</i> , 1986, 52, 782-787.	3.1	40
142	Surface attachment of nitrifying bacteria and their inhibition by potassium ethyl xanthate. <i>Microbial Ecology</i> , 1987, 14, 129-139.	2.8	39
143	The contribution of ammonia-oxidizing archaea and bacteria to gross nitrification under different substrate availability. <i>Soil Biology and Biochemistry</i> , 2021, 160, 108353.	8.8	39
144	A model for bacterial conjugal gene transfer on solid surfaces. <i>FEMS Microbiology Ecology</i> , 2003, 44, 67-78.	2.7	37

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145	The influence of synthetic sheep urine on ammonia oxidizing bacterial communities in grassland soil. <i>FEMS Microbiology Ecology</i> , 2006, 56, 444-454.	2.7	37
146	Putting science back into microbial ecology: a question of approach. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2020, 375, 20190240.	4.0	37
147	The surface growth and activity of <i>Nitrobacter</i> . <i>Microbial Ecology</i> , 1988, 15, 21-39.	2.8	35
148	Afforestation of moorland leads to changes in crenarchaeal community structure. <i>FEMS Microbiology Ecology</i> , 2007, 60, 51-59.	2.7	35
149	PCR profiling of ammonia-oxidizer communities in acidic soils subjected to nitrogen and sulphur deposition. <i>FEMS Microbiology Ecology</i> , 2007, 61, 305-316.	2.7	35
150	Stream drying drives microbial ammonia oxidation and first-flush nitrate export. <i>Ecology</i> , 2016, 97, 2192-2198.	3.2	35
151	Diversity of Endospore-forming Bacteria in Soil: Characterization and Driving Mechanisms. <i>Soil Biology</i> , 2011, , 31-59.	0.8	35
152	Role of functionally dominant species in varying environmental regimes: evidence for the performance-enhancing effect of biodiversity. <i>BMC Ecology</i> , 2012, 12, 14.	3.0	34
153	Flux and turnover of fixed carbon in soil microbial biomass of limed and unlimed plots of an upland grassland ecosystem. <i>Environmental Microbiology</i> , 2005, 7, 544-552.	3.8	31
154	Sheep-urine-induced changes in soil microbial community structure. <i>FEMS Microbiology Ecology</i> , 2006, 56, 310-320.	2.7	29
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