

Tim Urich

List of Publications by Year in descending order

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Version: 2024-02-01

97
papers

13,455
citations

31949

53
h-index

37183

96
g-index

109
all docs

109
docs citations

109
times ranked

16095
citing authors

#	ARTICLE	IF	CITATIONS
1	Archaea predominate among ammonia-oxidizing prokaryotes in soils. <i>Nature</i> , 2006, 442, 806-809.	13.7	2,144
2	A communal catalogue reveals Earth's multiscale microbial diversity. <i>Nature</i> , 2017, 551, 457-463.	13.7	1,942
3	<i>Nitrososphaera viennensis</i> , an ammonia oxidizing archaeon from soil. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 8420-8425.	3.3	810
4	Simultaneous Assessment of Soil Microbial Community Structure and Function through Analysis of the Meta-Transcriptome. <i>PLoS ONE</i> , 2008, 3, e2527.	1.1	667
5	Methylotrophic methanogenic Thermoplasmata implicated in reduced methane emissions from bovine rumen. <i>Nature Communications</i> , 2013, 4, 1428.	5.8	328
6	Organic carbon transformations in high-Arctic peat soils: key functions and microorganisms. <i>ISME Journal</i> , 2013, 7, 299-311.	4.4	292
7	Phylotype-level 16S rRNA analysis reveals new bacterial indicators of health state in acute murine colitis. <i>ISME Journal</i> , 2012, 6, 2091-2106.	4.4	291
8	Metatranscriptomic census of active protists in soils. <i>ISME Journal</i> , 2015, 9, 2178-2190.	4.4	274
9	Unifying the global phylogeny and environmental distribution of ammonia-oxidising archaea based on amoA genes. <i>Nature Communications</i> , 2018, 9, 1517.	5.8	256
10	CREST – Classification Resources for Environmental Sequence Tags. <i>PLoS ONE</i> , 2012, 7, e49334.	1.1	255
11	Biochar Decelerates Soil Organic Nitrogen Cycling but Stimulates Soil Nitrification in a Temperate Arable Field Trial. <i>PLoS ONE</i> , 2014, 9, e86388.	1.1	231
12	Input of easily available organic C and N stimulates microbial decomposition of soil organic matter in arctic permafrost soil. <i>Soil Biology and Biochemistry</i> , 2014, 75, 143-151.	4.2	213
13	Metabolic and trophic interactions modulate methane production by Arctic peat microbiota in response to warming. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E2507-16.	3.3	207
14	Aquatic and terrestrial cyanobacteria produce methane. <i>Science Advances</i> , 2020, 6, eaax5343.	4.7	178
15	The soil food web revisited: Diverse and widespread mycophagous soil protists. <i>Soil Biology and Biochemistry</i> , 2016, 94, 10-18.	4.2	175
16	Longitudinal study of murine microbiota activity and interactions with the host during acute inflammation and recovery. <i>ISME Journal</i> , 2014, 8, 1101-1114.	4.4	174
17	Nitrification in terrestrial hot springs of Iceland and Kamchatka. <i>FEMS Microbiology Ecology</i> , 2008, 64, 167-174.	1.3	173
18	Responses of the terrestrial ammonia-oxidizing archaeon <i>Ca</i> . <i>Nitrososphaera viennensis</i> and the ammonia-oxidizing bacterium <i>Nitrospira multiformis</i> to nitrification inhibitors. <i>FEMS Microbiology Letters</i> , 2013, 344, 121-129.	0.7	172

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19	Metatranscriptomic Analysis of Arctic Peat Soil Microbiota. <i>Applied and Environmental Microbiology</i> , 2014, 80, 5761-5772.	1.4	169
20	Nitrification rates in Arctic soils are associated with functionally distinct populations of ammonia-oxidizing archaea. <i>ISME Journal</i> , 2013, 7, 1620-1631.	4.4	163
21	Coupling of the pathway of sulphur oxidation to dioxygen reduction: characterization of a novel membrane-bound thiosulphate:quinone oxidoreductase. <i>Molecular Microbiology</i> , 2004, 53, 1147-1160.	1.2	160
22	Dissimilatory Oxidation and Reduction of Elemental Sulfur in Thermophilic Archaea. <i>Journal of Bioenergetics and Biomembranes</i> , 2004, 36, 77-91.	1.0	152
23	Lifestyle and Horizontal Gene Transfer-Mediated Evolution of <i>Mucispirillum schaedleri</i> , a Core Member of the Murine Gut Microbiota. <i>MSystems</i> , 2017, 2, .	1.7	148
24	Resource Partitioning between Bacteria, Fungi, and Protists in the Detritosphere of an Agricultural Soil. <i>Frontiers in Microbiology</i> , 2016, 7, 1524.	1.5	143
25	Distinct microbial communities associated with buried soils in the Siberian tundra. <i>ISME Journal</i> , 2014, 8, 841-853.	4.4	137
26	Metatranscriptomics of the marine sponge <i>Geodia barretti</i> : tackling phylogeny and function of its microbial community. <i>Environmental Microbiology</i> , 2012, 14, 1308-1324.	1.8	124
27	Adaptation of soil microbial community structure and function to chronic metal contamination at an abandoned Pb-Zn mine. <i>FEMS Microbiology Ecology</i> , 2015, 91, 1-11.	1.3	119
28	Production of Recombinant and Tagged Proteins in the Hyperthermophilic Archaeon <i>Sulfolobus solfataricus</i> . <i>Applied and Environmental Microbiology</i> , 2006, 72, 102-111.	1.4	116
29	Functional analysis of metagenomes and metatranscriptomes using SEED and KEGG. <i>BMC Bioinformatics</i> , 2011, 12, S21.	1.2	116
30	Phylogenetic and genomic analysis of <i>Methanomassiliicoccales</i> in wetlands and animal intestinal tracts reveals clade-specific habitat preferences. <i>FEMS Microbiology Ecology</i> , 2016, 92, fiv149.	1.3	110
31	Microbial community structure and functioning in marine sediments associated with diffuse hydrothermal venting assessed by integrated metagenomics. <i>Environmental Microbiology</i> , 2014, 16, 2699-2710.	1.8	109
32	Differential effects of monensin and a blend of essential oils on rumen microbiota composition of transition dairy cows. <i>Journal of Dairy Science</i> , 2017, 100, 2765-2783.	1.4	109
33	Temperature response of permafrost soil carbon is attenuated by mineral protection. <i>Global Change Biology</i> , 2018, 24, 3401-3415.	4.2	107
34	Intestinal Microbiota Signatures Associated with Inflammation History in Mice Experiencing Recurring Colitis. <i>Frontiers in Microbiology</i> , 2015, 6, 1408.	1.5	106
35	Rare but active taxa contribute to community dynamics of benthic biofilms in glacier-fed streams. <i>Environmental Microbiology</i> , 2014, 16, 2514-2524.	1.8	101
36	A plant-microbe interaction framework explaining nutrient effects on primary production. <i>Nature Ecology and Evolution</i> , 2018, 2, 1588-1596.	3.4	100

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37	Exploring the composition and diversity of microbial communities at the Jan Mayen hydrothermal vent field using RNA and DNA. <i>FEMS Microbiology Ecology</i> , 2011, 77, 577-589.	1.3	98
38	Pack hunting by a common soil amoeba on nematodes. <i>Environmental Microbiology</i> , 2015, 17, 4538-4546.	1.8	93
39	X-ray Structure of a Self-Compartmentalizing Sulfur Cycle Metalloenzyme. <i>Science</i> , 2006, 311, 996-1000.	6.0	91
40	Effects of Soil Organic Matter Properties and Microbial Community Composition on Enzyme Activities in Cryoturbated Arctic Soils. <i>PLoS ONE</i> , 2014, 9, e94076.	1.1	90
41	Plant-derived compounds stimulate the decomposition of organic matter in arctic permafrost soils. <i>Scientific Reports</i> , 2016, 6, 25607.	1.6	87
42	Storage and transformation of organic matter fractions in cryoturbated permafrost soils across the Siberian Arctic. <i>Biogeosciences</i> , 2015, 12, 4525-4542.	1.3	85
43	Nitrogen dynamics in Turbic Cryosols from Siberia and Greenland. <i>Soil Biology and Biochemistry</i> , 2013, 67, 85-93.	4.2	78
44	Alterations in the Rumen Liquid-, Particle- and Epithelium-Associated Microbiota of Dairy Cows during the Transition from a Silage- and Concentrate-Based Ration to Pasture in Spring. <i>Frontiers in Microbiology</i> , 2017, 8, 744.	1.5	78
45	Rewetting does not return drained fen peatlands to their old selves. <i>Nature Communications</i> , 2021, 12, 5693.	5.8	75
46	Holistic Assessment of Rumen Microbiome Dynamics through Quantitative Metatranscriptomics Reveals Multifunctional Redundancy during Key Steps of Anaerobic Feed Degradation. <i>MSystems</i> , 2018, 3, .	1.7	74
47	Site- and horizon-specific patterns of microbial community structure and enzyme activities in permafrost-affected soils of Greenland. <i>Frontiers in Microbiology</i> , 2014, 5, 541.	1.5	73
48	The soil microbial food web revisited: Predatory myxobacteria as keystone taxa?. <i>ISME Journal</i> , 2021, 15, 2665-2675.	4.4	73
49	The effect of warming on the vulnerability of subducted organic carbon in arctic soils. <i>Soil Biology and Biochemistry</i> , 2015, 90, 19-29.	4.2	68
50	Methylophilic methanogens everywhere – physiology and ecology of novel players in global methane cycling. <i>Biochemical Society Transactions</i> , 2019, 47, 1895-1907.	1.6	66
51	Unusual Butane- and Pentanetriol-Based Tetraether Lipids in <i>Methanomassiliicoccus luminyensis</i> , a Representative of the Seventh Order of Methanogens. <i>Applied and Environmental Microbiology</i> , 2016, 82, 4505-4516.	1.4	64
52	Properties and bioavailability of particulate and mineral-associated organic matter in arctic permafrost soils, Lower Kolyma region, Russia. <i>European Journal of Soil Science</i> , 2015, 66, 722-734.	1.8	59
53	Fate of carbohydrates and lignin in north-east Siberian permafrost soils. <i>Soil Biology and Biochemistry</i> , 2018, 116, 311-322.	4.2	59
54	Significance of dark CO ₂ fixation in arctic soils. <i>Soil Biology and Biochemistry</i> , 2018, 119, 11-21.	4.2	58

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55	The sulphur oxygenase reductase from <i>Acidianus ambivalens</i> is a multimeric protein containing a low-potential mononuclear non-haem iron centre. <i>Biochemical Journal</i> , 2004, 381, 137-146.	1.7	57
56	Altered carbon turnover processes and microbiomes in soils under long-term extremely high CO ₂ exposure. <i>Nature Microbiology</i> , 2016, 1, 15025.	5.9	52
57	Amino acid production exceeds plant nitrogen demand in Siberian tundra. <i>Environmental Research Letters</i> , 2018, 13, 034002.	2.2	49
58	Divergent drivers of the microbial methane sink in temperate forest and grassland soils. <i>Global Change Biology</i> , 2021, 27, 929-940.	4.2	49
59	From Understanding to Sustainable Use of Peatlands: The WETSCAPES Approach. <i>Soil Systems</i> , 2020, 4, 14.	1.0	45
60	Intestinal Epithelial Cell Tyrosine Kinase 2 Transduces IL-22 Signals To Protect from Acute Colitis. <i>Journal of Immunology</i> , 2015, 195, 5011-5024.	0.4	40
61	Molecular Analysis of pDL10 from <i>Acidianus ambivalens</i> Reveals a Family of Related Plasmids from Extremely Thermophilic and Acidophilic Archaea. <i>Genetics</i> , 1999, 152, 1307-1314.	1.2	40
62	Type I interferons have opposing effects during the emergence and recovery phases of colitis. <i>European Journal of Immunology</i> , 2014, 44, 2749-2760.	1.6	39
63	Disentangling carbon flow across microbial kingdoms in the rhizosphere of maize. <i>Soil Biology and Biochemistry</i> , 2019, 134, 122-130.	4.2	38
64	Drying and Rainfall Shape the Structure and Functioning of Nitrifying Microbial Communities in Riverbed Sediments. <i>Frontiers in Microbiology</i> , 2018, 9, 2794.	1.5	37
65	Sulfur-Oxidizing Chemolithotrophic Proteobacteria Dominate the Microbiota in High Arctic Thermal Springs on Svalbard. <i>Astrobiology</i> , 2011, 11, 665-678.	1.5	36
66	Light availability impacts structure and function of phototrophic stream biofilms across domains and trophic levels. <i>Molecular Ecology</i> , 2018, 27, 2913-2925.	2.0	35
67	Low abundance of Archaeorhizomycetes among fungi in soil metatranscriptomes. <i>Scientific Reports</i> , 2016, 6, 38455.	1.6	32
68	North Sea spring bloom-associated Gammaproteobacteria fill diverse heterotrophic niches. <i>Environmental Microbiomes</i> , 2021, 16, 15.	2.2	32
69	Gene expression of lactobacilli in murine forestomach biofilms. <i>Microbial Biotechnology</i> , 2014, 7, 347-359.	2.0	31
70	Substrate Pathways and Mechanisms of Inhibition in the Sulfur Oxygenase Reductase of <i>Acidianus Ambivalens</i> . <i>Frontiers in Microbiology</i> , 2011, 2, 37.	1.5	28
71	Identification of core active site residues of the sulfur oxygenase reductase from <i>Acidianus ambivalens</i> by site-directed mutagenesis. <i>FEMS Microbiology Letters</i> , 2005, 248, 171-176.	0.7	26
72	Tissue- and Population-Level Microbiome Analysis of the Wasp Spider <i>Argiope bruennichi</i> Identified a Novel Dominant Bacterial Symbiont. <i>Microorganisms</i> , 2020, 8, 8.	1.6	26

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73	Diversity and degradative capabilities of bacteria and fungi isolated from oil-contaminated and hydrocarbon-polluted soils in Kazakhstan. <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 7261-7274.	1.7	25
74	Long-Term Rewetting of Three Formerly Drained Peatlands Drives Congruent Compositional Changes in Pro- and Eukaryotic Soil Microbiomes through Environmental Filtering. <i>Microorganisms</i> , 2020, 8, 550.	1.6	25
75	Biotransformation of bisphenol A analogues by the biphenyl-degrading bacterium <i>Cupriavidus basilensis</i> —a structure-biotransformation relationship. <i>Applied Microbiology and Biotechnology</i> , 2020, 104, 3569-3583.	1.7	24
76	Topsoil removal reduced in-situ methane emissions in a temperate rewetted bog grassland by a hundredfold. <i>Science of the Total Environment</i> , 2020, 721, 137763.	3.9	19
77	Down-regulation of the bacterial protein biosynthesis machinery in response to weeks, years, and decades of soil warming. <i>Science Advances</i> , 2022, 8, eabm3230.	4.7	18
78	The sulfur oxygenase reductase from <i>Acidianus ambivalens</i> is an icosatetramer as shown by crystallization and Patterson analysis. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2005, 1747, 267-270.	1.1	17
79	Draft Genome Sequence of <i>Candidatus</i> <i>Methanomethylophilus</i> sp. 1R26, Enriched from Bovine Rumen, a Methanogenic Archaeon Belonging to the <i>Methanomassiliicoccales</i> Order. <i>Genome Announcements</i> , 2016, 4, .	0.8	17
80	A Multi-Omics Protocol for Swine Feces to Elucidate Longitudinal Dynamics in Microbiome Structure and Function. <i>Microorganisms</i> , 2020, 8, 1887.	1.6	15
81	A Proteomic Approach toward the Selection of Proteins with Enhanced Intrinsic Conformational Stability. <i>Journal of Proteome Research</i> , 2006, 5, 2720-2726.	1.8	14
82	Influenza A H1N1 Induced Disturbance of the Respiratory and Fecal Microbiome of German Landrace Pigs—a Multi-Omics Characterization. <i>Microbiology Spectrum</i> , 2021, 9, e0018221.	1.2	14
83	Increased microbial expression of organic nitrogen cycling genes in long-term warmed grassland soils. <i>ISME Communications</i> , 2021, 1, .	1.7	14
84	Desiccation time and rainfall control gaseous carbon fluxes in an intermittent stream. <i>Biogeochemistry</i> , 2021, 155, 381-400.	1.7	12
85	Linking transcriptional dynamics of CH ₄ -cycling grassland soil microbiomes to seasonal gas fluxes. <i>ISME Journal</i> , 2022, 16, 1788-1797.	4.4	12
86	Microbiome structure and functional potential in permafrost soils of the Western Canadian Arctic. <i>FEMS Microbiology Ecology</i> , 2021, 97, .	1.3	9
87	Linking 16S rRNA Gene Classification to <i>amoA</i> Gene Taxonomy Reveals Environmental Distribution of Ammonia-Oxidizing Archaeal Clades in Peatland Soils. <i>MSystems</i> , 2021, 6, e0054621.	1.7	9
88	Fungi in Permafrost-Affected Soils of the Canadian Arctic: Horizon- and Site-Specific Keystone Taxa Revealed by Co-Occurrence Network. <i>Microorganisms</i> , 2021, 9, 1943.	1.6	9
89	Eukaryotic rather than prokaryotic microbiomes change over seasons in rewetted fen peatlands. <i>FEMS Microbiology Ecology</i> , 2021, 97, .	1.3	8
90	Chronic Helminth Infection Perturbs the Gut-Brain Axis, Promotes Neuropathology, and Alters Behavior. <i>Journal of Infectious Diseases</i> , 2018, 218, 1511-1516.	1.9	6

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91	Moniliella spathulata, an oil-degrading yeast, which promotes growth of barley in oil-polluted soil. Applied Microbiology and Biotechnology, 2021, 105, 401-415.	1.7	5
92	Lignin Preservation and Microbial Carbohydrate Metabolism in Permafrost Soils. Journal of Geophysical Research G: Biogeosciences, 2022, 127, e2020JG006181.	1.3	5
93	Full Genome Sequence of a <i>Methanomassiliococcales</i> Representative Enriched from Peat Soil. Microbiology Resource Announcements, 2021, 10, e0044321.	0.3	4
94	Evidence for Enzymatic Backbone Methylation of the Main Membrane Lipids in the Archaeon Methanomassiliococcus luminyensis. Applied and Environmental Microbiology, 2022, 88, aem0215421.	1.4	3
95	Temporal dynamics in the taxonomic and functional profile of the Sphagnum-associated fungi (mycobiomes) in a Sphagnum farming field site in Northwestern Germany. FEMS Microbiology Ecology, 2020, 96, .	1.3	2
96	Structure of a spherical selfcompartmentalizing sulphur cycle metalloenzyme. Acta Crystallographica Section A: Foundations and Advances, 2006, 62, s28-s28.	0.3	0
97	The sulfur oxygenase reductase from Acidianus ambivalens. Acta Crystallographica Section A: Foundations and Advances, 2005, 61, c265-c265.	0.3	0