

# Tim Urich

## List of Publications by Citations

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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.

96  
papers

9,334  
citations

47  
h-index

96  
g-index

109  
ext. papers

11,941  
ext. citations

8  
avg, IF

5.84  
L-index

#	Paper	IF	Citations
96	Archaea predominate among ammonia-oxidizing prokaryotes in soils. <i>Nature</i> , <b>2006</b> , 442, 806-9	50.4	1817
95	A communal catalogue reveals Earth's multiscale microbial diversity. <i>Nature</i> , <b>2017</b> , 551, 457-463	50.4	1076
94	<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> , <b>2011</b> , 108, 8420-5	11.5	644
93	Simultaneous assessment of soil microbial community structure and function through analysis of the meta-transcriptome. <i>PLoS ONE</i> , <b>2008</b> , 3, e2527	3.7	558
92	Organic carbon transformations in high-Arctic peat soils: key functions and microorganisms. <i>ISME Journal</i> , <b>2013</b> , 7, 299-311	11.9	218
91	Methylotrophic methanogenic Thermoplasmata implicated in reduced methane emissions from bovine rumen. <i>Nature Communications</i> , <b>2013</b> , 4, 1428	17.4	215
90	Phylotype-level 16S rRNA analysis reveals new bacterial indicators of health state in acute murine colitis. <i>ISME Journal</i> , <b>2012</b> , 6, 2091-106	11.9	208
89	Biochar decelerates soil organic nitrogen cycling but stimulates soil nitrification in a temperate arable field trial. <i>PLoS ONE</i> , <b>2014</b> , 9, e86388	3.7	178
88	Metatranscriptomic census of active protists in soils. <i>ISME Journal</i> , <b>2015</b> , 9, 2178-90	11.9	175
87	CREST--classification resources for environmental sequence tags. <i>PLoS ONE</i> , <b>2012</b> , 7, e49334	3.7	167
86	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> , <b>2014</b> , 75, 143-151	7.5	165
85	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> , <b>2015</b> , 112, E2507-16	11.5	142
84	Nitrification in terrestrial hot springs of Iceland and Kamchatka. <i>FEMS Microbiology Ecology</i> , <b>2008</b> , 64, 167-74	4.3	138
83	Responses of the terrestrial ammonia-oxidizing archaeon <i>Ca. Nitrososphaera viennensis</i> and the ammonia-oxidizing bacterium <i>Nitrosospira multififormis</i> to nitrification inhibitors. <i>FEMS Microbiology Letters</i> , <b>2013</b> , 344, 121-9	2.9	135
82	Dissimilatory oxidation and reduction of elemental sulfur in thermophilic archaea. <i>Journal of Bioenergetics and Biomembranes</i> , <b>2004</b> , 36, 77-91	3.7	134
81	Unifying the global phylogeny and environmental distribution of ammonia-oxidising archaea based on amoA genes. <i>Nature Communications</i> , <b>2018</b> , 9, 1517	17.4	131
80	Nitrification rates in Arctic soils are associated with functionally distinct populations of ammonia-oxidizing archaea. <i>ISME Journal</i> , <b>2013</b> , 7, 1620-31	11.9	131

79	Coupling of the pathway of sulphur oxidation to dioxygen reduction: characterization of a novel membrane-bound thiosulphate:quinone oxidoreductase. <i>Molecular Microbiology</i> , <b>2004</b> , 53, 1147-60	4.1	131
78	Longitudinal study of murine microbiota activity and interactions with the host during acute inflammation and recovery. <i>ISME Journal</i> , <b>2014</b> , 8, 1101-14	11.9	121
77	Distinct microbial communities associated with buried soils in the Siberian tundra. <i>ISME Journal</i> , <b>2014</b> , 8, 841-53	11.9	111
76	Production of recombinant and tagged proteins in the hyperthermophilic archaeon <i>Sulfolobus solfataricus</i> . <i>Applied and Environmental Microbiology</i> , <b>2006</b> , 72, 102-11	4.8	108
75	Metatranscriptomic analysis of arctic peat soil microbiota. <i>Applied and Environmental Microbiology</i> , <b>2014</b> , 80, 5761-72	4.8	106
74	Metatranscriptomics of the marine sponge <i>Geodia barretti</i> : tackling phylogeny and function of its microbial community. <i>Environmental Microbiology</i> , <b>2012</b> , 14, 1308-24	5.2	102
73	The soil food web revisited: Diverse and widespread mycophagous soil protists. <i>Soil Biology and Biochemistry</i> , <b>2016</b> , 94, 10-18	7.5	99
72	Functional analysis of metagenomes and metatranscriptomes using SEED and KEGG. <i>BMC Bioinformatics</i> , <b>2011</b> , 12 Suppl 1, S21	3.6	93
71	Lifestyle and Horizontal Gene Transfer-Mediated Evolution of , a Core Member of the Murine Gut Microbiota. <i>MSystems</i> , <b>2017</b> , 2,	7.6	88
70	Adaptation of soil microbial community structure and function to chronic metal contamination at an abandoned Pb-Zn mine. <i>FEMS Microbiology Ecology</i> , <b>2015</b> , 91, 1-11	4.3	85
69	Aquatic and terrestrial cyanobacteria produce methane. <i>Science Advances</i> , <b>2020</b> , 6, eaax5343	14.3	85
68	Resource Partitioning between Bacteria, Fungi, and Protists in the Detritosphere of an Agricultural Soil. <i>Frontiers in Microbiology</i> , <b>2016</b> , 7, 1524	5.7	85
67	Phylogenetic and genomic analysis of Methanomassiliococcales in wetlands and animal intestinal tracts reveals clade-specific habitat preferences. <i>FEMS Microbiology Ecology</i> , <b>2016</b> , 92,	4.3	78
66	Exploring the composition and diversity of microbial communities at the Jan Mayen hydrothermal vent field using RNA and DNA. <i>FEMS Microbiology Ecology</i> , <b>2011</b> , 77, 577-89	4.3	77
65	X-ray Structure of a self-compartmentalizing sulfur cycle metalloenzyme. <i>Science</i> , <b>2006</b> , 311, 996-1000	33.3	77
64	Effects of soil organic matter properties and microbial community composition on enzyme activities in cryoturbated arctic soils. <i>PLoS ONE</i> , <b>2014</b> , 9, e94076	3.7	68
63	Rare but active taxa contribute to community dynamics of benthic biofilms in glacier-fed streams. <i>Environmental Microbiology</i> , <b>2014</b> , 16, 2514-24	5.2	68
62	Storage and transformation of organic matter fractions in cryoturbated permafrost soils across the Siberian Arctic. <i>Biogeosciences</i> , <b>2015</b> , 12, 4525-4542	4.6	67

61	Intestinal Microbiota Signatures Associated with Inflammation History in Mice Experiencing Recurring Colitis. <i>Frontiers in Microbiology</i> , <b>2015</b> , 6, 1408	5.7	67
60	Temperature response of permafrost soil carbon is attenuated by mineral protection. <i>Global Change Biology</i> , <b>2018</b> , 24, 3401-3415	11.4	66
59	Plant-derived compounds stimulate the decomposition of organic matter in arctic permafrost soils. <i>Scientific Reports</i> , <b>2016</b> , 6, 25607	4.9	64
58	Nitrogen dynamics in Turbic Cryosols from Siberia and Greenland. <i>Soil Biology and Biochemistry</i> , <b>2013</b> , 67, 85-93	7.5	62
57	Site- and horizon-specific patterns of microbial community structure and enzyme activities in permafrost-affected soils of Greenland. <i>Frontiers in Microbiology</i> , <b>2014</b> , 5, 541	5.7	62
56	Pack hunting by a common soil amoeba on nematodes. <i>Environmental Microbiology</i> , <b>2015</b> , 17, 4538-46	5.2	60
55	Microbial community structure and functioning in marine sediments associated with diffuse hydrothermal venting assessed by integrated meta-omics. <i>Environmental Microbiology</i> , <b>2014</b> , 16, 2699-7102	5.2	58
54	Differential effects of monensin and a blend of essential oils on rumen microbiota composition of transition dairy cows. <i>Journal of Dairy Science</i> , <b>2017</b> , 100, 2765-2783	4	55
53	The effect of warming on the vulnerability of subducted organic carbon in arctic soils. <i>Soil Biology and Biochemistry</i> , <b>2015</b> , 90, 19-29	7.5	50
52	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> , <b>2004</b> , 381, 137-46	3.8	49
51	A plant-microbe interaction framework explaining nutrient effects on primary production. <i>Nature Ecology and Evolution</i> , <b>2018</b> , 2, 1588-1596	12.3	49
50	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> , <b>2016</b> , 82, 4505-4516	4.8	47
49	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> , <b>2015</b> , 66, 722-734	3.4	42
48	Fate of carbohydrates and lignin in north-east Siberian permafrost soils. <i>Soil Biology and Biochemistry</i> , <b>2018</b> , 116, 311-322	7.5	41
47	Significance of dark CO <sub>2</sub> fixation in arctic soils. <i>Soil Biology and Biochemistry</i> , <b>2018</b> , 119, 11-21	7.5	40
46	Amino acid production exceeds plant nitrogen demand in Siberian tundra. <i>Environmental Research Letters</i> , <b>2018</b> , 13, 034002	6.2	39
45	Holistic Assessment of Rumen Microbiome Dynamics through Quantitative Metatranscriptomics Reveals Multifunctional Redundancy during Key Steps of Anaerobic Feed Degradation. <i>MSystems</i> , <b>2018</b> , 3,	7.6	37
44	Molecular analysis of pDL10 from <i>Acidianus ambivalens</i> reveals a family of related plasmids from extremely thermophilic and acidophilic archaea. <i>Genetics</i> , <b>1999</b> , 152, 1307-14	4	37

43	Intestinal Epithelial Cell Tyrosine Kinase 2 Transduces IL-22 Signals To Protect from Acute Colitis. <i>Journal of Immunology</i> , <b>2015</b> , 195, 5011-24	5.3	33
42	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> , <b>2017</b> , 8, 744	5.7	28
41	Sulfur-oxidizing chemolithotrophic proteobacteria dominate the microbiota in high arctic thermal springs on Svalbard. <i>Astrobiology</i> , <b>2011</b> , 11, 665-78	3.7	28
40	Altered carbon turnover processes and microbiomes in soils under long-term extremely high CO <sub>2</sub> exposure. <i>Nature Microbiology</i> , <b>2016</b> , 1, 15025	26.6	27
39	Drying and Rainfall Shape the Structure and Functioning of Nitrifying Microbial Communities in Riverbed Sediments. <i>Frontiers in Microbiology</i> , <b>2018</b> , 9, 2794	5.7	26
38	From Understanding to Sustainable Use of Peatlands: The WETSCAPES Approach. <i>Soil Systems</i> , <b>2020</b> , 4, 14	3.5	24
37	Low abundance of Archaeorhizomycetes among fungi in soil metatranscriptomes. <i>Scientific Reports</i> , <b>2016</b> , 6, 38455	4.9	24
36	Gene expression of lactobacilli in murine forestomach biofilms. <i>Microbial Biotechnology</i> , <b>2014</b> , 7, 347-59	6.3	24
35	Light availability impacts structure and function of phototrophic stream biofilms across domains and trophic levels. <i>Molecular Ecology</i> , <b>2018</b> , 27, 2913-2925	5.7	23
34	Type I interferons have opposing effects during the emergence and recovery phases of colitis. <i>European Journal of Immunology</i> , <b>2014</b> , 44, 2749-60	6.1	23
33	Disentangling carbon flow across microbial kingdoms in the rhizosphere of maize. <i>Soil Biology and Biochemistry</i> , <b>2019</b> , 134, 122-130	7.5	21
32	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> , <b>2005</b> , 248, 171-6	2.9	21
31	Methylotrophic methanogens everywhere - physiology and ecology of novel players in global methane cycling. <i>Biochemical Society Transactions</i> , <b>2019</b> , 47, 1895-1907	5.1	21
30	Substrate pathways and mechanisms of inhibition in the sulfur oxygenase reductase of <i>acidianus ambivalens</i> . <i>Frontiers in Microbiology</i> , <b>2011</b> , 2, 37	5.7	19
29	Divergent drivers of the microbial methane sink in temperate forest and grassland soils. <i>Global Change Biology</i> , <b>2021</b> , 27, 929-940	11.4	19
28	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> , <b>2005</b> , 1747, 267-70	4	15
27	Biotransformation of bisphenol A analogues by the biphenyl-degrading bacterium <i>Cupriavidus basilensis</i> - a structure-biotransformation relationship. <i>Applied Microbiology and Biotechnology</i> , <b>2020</b> , 104, 3569-3583	5.7	14
26	Diversity and degradative capabilities of bacteria and fungi isolated from oil-contaminated and hydrocarbon-polluted soils in Kazakhstan. <i>Applied Microbiology and Biotechnology</i> , <b>2019</b> , 103, 7261-7274	5.7	14

25	A proteomic approach toward the selection of proteins with enhanced intrinsic conformational stability. <i>Journal of Proteome Research</i> , <b>2006</b> , 5, 2720-6	5.6	14
24	Long-Term Rewetting of Three Formerly Drained Peatlands Drives Congruent Compositional Changes in Pro- and Eukaryotic Soil Microbiomes through Environmental Filtering. <i>Microorganisms</i> , <b>2020</b> , 8,	4.9	13
23	Tissue- and Population-Level Microbiome Analysis of the Wasp Spider Identified a Novel Dominant Bacterial Symbiont. <i>Microorganisms</i> , <b>2019</b> , 8,	4.9	13
22	Storage and transformation of organic matter fractions in cryoturbated permafrost soils across the Siberian Arctic		11
21	Rewetting does not return drained fen peatlands to their old selves. <i>Nature Communications</i> , <b>2021</b> , 12, 5693	17.4	11
20	The soil microbial food web revisited: Predatory myxobacteria as keystone taxa?. <i>ISME Journal</i> , <b>2021</b> , 15, 2665-2675	11.9	10
19	Draft Genome Sequence of "Candidatus Methanomethylophilus" sp. 1R26, Enriched from Bovine Rumen, a Methanogenic Archaeon Belonging to the Methanomassiliicoccales Order. <i>Genome Announcements</i> , <b>2016</b> , 4,		9
18	The Double-RNA Approach to Simultaneously Assess the Structure and Function of a Soil Microbial Community <b>2011</b> , 587-596		7
17	Topsoil removal reduced in-situ methane emissions in a temperate rewetted bog grassland by a hundredfold. <i>Science of the Total Environment</i> , <b>2020</b> , 721, 137763	10.2	6
16	The soil microbial food web revisited with metatranscriptomics - predatory Myxobacteria as keystone taxon?		5
15	Chronic Helminth Infection Perturbs the Gut-Brain Axis, Promotes Neuropathology, and Alters Behavior. <i>Journal of Infectious Diseases</i> , <b>2018</b> , 218, 1511-1516	7	3
14	A Multi-Omics Protocol for Swine Feces to Elucidate Longitudinal Dynamics in Microbiome Structure and Function. <i>Microorganisms</i> , <b>2020</b> , 8,	4.9	3
13	Desiccation time and rainfall control gaseous carbon fluxes in an intermittent stream. <i>Biogeochemistry</i> , <b>2021</b> , 155, 381-400	3.8	3
12	Eukaryotic rather than prokaryotic microbiomes change over seasons in rewetted fen peatlands. <i>FEMS Microbiology Ecology</i> , <b>2021</b> , 97,	4.3	3
11	North Sea spring bloom-associated Gammaproteobacteria fill diverse heterotrophic niches. <i>Environmental Microbiomes</i> , <b>2021</b> , 16, 15	5.6	2
10	Influenza A H1N1 Induced Disturbance of the Respiratory and Fecal Microbiome of German Landrace Pigs - a Multi-Omics Characterization. <i>Microbiology Spectrum</i> , <b>2021</b> , 9, e0018221	8.9	1
9	Tissue- and population-level microbiome analysis of the wasp spider <i>Argiope bruennichi</i> identifies a novel dominant bacterial symbiont		1
8	<i>Moniliella spathulata</i> , an oil-degrading yeast, which promotes growth of barley in oil-polluted soil. <i>Applied Microbiology and Biotechnology</i> , <b>2021</b> , 105, 401-415	5.7	1

7	Microbiome structure and functional potential in permafrost soils of the Western Canadian Arctic. <i>FEMS Microbiology Ecology</i> , <b>2021</b> , 97,	4.3	1
6	Fungi in Permafrost-Affected Soils of the Canadian Arctic: Horizon- and Site-Specific Keystone Taxa Revealed by Co-Occurrence Network. <i>Microorganisms</i> , <b>2021</b> , 9,	4.9	1
5	Evidence for enzymatic backbone methylation of the main membrane lipids in the archaeon .. <i>Applied and Environmental Microbiology</i> , <b>2021</b> , aem0215421	4.8	1
4	Full Genome Sequence of a Representative Enriched from Peat Soil. <i>Microbiology Resource Announcements</i> , <b>2021</b> , 10, e0044321	1.3	1
3	Lignin preservation and microbial carbohydrate metabolism in permafrost soils. <i>Journal of Geophysical Research G: Biogeosciences</i> , e2020JG006181	3.7	0
2	Linking 16S rRNA Gene Classification to Gene Taxonomy Reveals Environmental Distribution of Ammonia-Oxidizing Archaeal Clades in Peatland Soils. <i>MSystems</i> , <b>2021</b> , e0054621	7.6	0
1	Down-regulation of the bacterial protein biosynthesis machinery in response to weeks, years, and decades of soil warming.. <i>Science Advances</i> , <b>2022</b> , 8, eabm3230	14.3	0