Trinity Hamilton

List of Publications by Year
in descending order

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71 papers	2,789 citations	147726 31 h-index	197736 49 g-index
80 all docs	80 docs citations	80 times ranked	3226 citing authors

#	Article	IF	Citations
1	The role of biology in planetary evolution: cyanobacterial primary production in lowâ€oxygen Proterozoic oceans. Environmental Microbiology, 2016, 18, 325-340.	1.8	151
2	A late methanogen origin for molybdenumâ€dependent nitrogenase. Geobiology, 2011, 9, 221-232.	1.1	141
3	Microbial ecology of mountain glacier ecosystems: biodiversity, ecological connections and implications of a warming climate. Environmental Microbiology, 2017, 19, 2935-2948.	1.8	130
4	Diversity, Abundance, and Potential Activity of Nitrifying and Nitrate-Reducing Microbial Assemblages in a Subglacial Ecosystem. Applied and Environmental Microbiology, 2011, 77, 4778-4787.	1.4	119
5	Molecular evidence for an active endogenous microbiome beneath glacial ice. ISME Journal, 2013, 7, 1402-1412.	4.4	116
6	An Alternative Path for the Evolution of Biological Nitrogen Fixation. Frontiers in Microbiology, 2011, 2, 205.	1.5	105
7	Transcriptional Profiling of Nitrogen Fixation in Azotobacter vinelandii. Journal of Bacteriology, 2011, 193, 4477-4486.	1.0	99
8	Evolution of Molybdenum Nitrogenase during the Transition from Anaerobic to Aerobic Metabolism. Journal of Bacteriology, 2015, 197, 1690-1699.	1.0	97
9	Chemolithotrophic Primary Production in a Subglacial Ecosystem. Applied and Environmental Microbiology, 2014, 80, 6146-6153.	1.4	92
10	Rock comminution as a source of hydrogen for subglacial ecosystems. Nature Geoscience, 2015, 8, 851-855.	5.4	82
11	Metagenomic insights into S(0) precipitation in a terrestrial subsurface lithoautotrophic ecosystem. Frontiers in Microbiology, 2014, 5, 756.	1.5	75
12	Geobiological feedbacks and the evolution of thermoacidophiles. ISME Journal, 2018, 12, 225-236.	4.4	70
13	The Role of Tetraether Lipid Composition in the Adaptation of Thermophilic Archaea to Acidity. Frontiers in Microbiology, 2013, 4, 62.	1.5	69
14	Crystal Structure of the L Protein of Rhodobacter sphaeroides Light-Independent Protochlorophyllide Reductase with MgADP Bound: A Homologue of the Nitrogenase Fe Protein. Biochemistry, 2008, 47, 13004-13015.	1.2	66
15	[FeFe]-hydrogenase in Yellowstone National Park: evidence for dispersal limitation and phylogenetic niche conservatism. ISME Journal, 2010, 4, 1485-1495.	4.4	63
16	Aerobic and Anaerobic Thiosulfate Oxidation by a Cold-Adapted, Subglacial Chemoautotroph. Applied and Environmental Microbiology, 2016, 82, 1486-1495.	1.4	62
17	Sulfur and carbon isotopic evidence for metabolic pathway evolution and a four-stepped Earth system progression across the Archean and Paleoproterozoic. Earth-Science Reviews, 2017, 174, 1-21.	4.0	58
18	Primary productivity of snow algae communities on stratovolcanoes of the Pacific Northwest. Geobiology, 2017, 15, 280-295.	1.1	54

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19	The behavior of biologically important trace elements across the oxic/euxinic transition of meromictic Fayetteville Green Lake, New York, USA. Geochimica Et Cosmochimica Acta, 2015, 165, 389-406.	1.6	52
20	Temperature impacts community structure and function of phototrophic Chloroflexi and Cyanobacteria in two alkaline hot springs in Yellowstone National Park. Environmental Microbiology Reports, 2020, 12, 503-513.	1.0	52
21	Carbon and Sulfur Cycling below the Chemocline in a Meromictic Lake and the Identification of a Novel Taxonomic Lineage in the FCB Superphylum, Candidatus Aegiribacteria. Frontiers in Microbiology, 2016, 7, 598.	1.5	51
22	Hot Spring Microbial Community Composition, Morphology, and Carbon Fixation: Implications for Interpreting the Ancient Rock Record. Frontiers in Earth Science, 2017, 5, .	0.8	50
23	Cyanobacterial photosynthesis under sulfidic conditions: insights from the isolate Leptolyngbya sp. strain hensonii. ISME Journal, 2018, 12, 568-584.	4.4	50
24	Competition for Ammonia Influences the Structure of Chemotrophic Communities in Geothermal Springs. Applied and Environmental Microbiology, 2014, 80, 653-661.	1.4	46
25	Biological nitrogen fixation in acidic highâ€temperature geothermal springs in Yellowstone National Park, Wyoming. Environmental Microbiology, 2011, 13, 2204-2215.	1.8	45
26	Coupled reductive and oxidative sulfur cycling in the phototrophic plate of a meromictic lake. Geobiology, 2014, 12, 451-468.	1.1	45
27	Environmental constraints defining the distribution, composition, and evolution of chlorophototrophs in thermal features of Yellowstone National Park. Geobiology, 2012, 10, 236-249.	1.1	42
28	Environmental Constraints Underpin the Distribution and Phylogenetic Diversity of nifH in the Yellowstone Geothermal Complex. Microbial Ecology, 2011, 61, 860-870.	1.4	40
29	Effect of salinity on mercury methylating benthic microbes and their activities in Great Salt Lake, Utah. Science of the Total Environment, 2017, 581-582, 495-506.	3.9	40
30	The trouble with oxygen: The ecophysiology of extant phototrophs and implications for the evolution of oxygenic photosynthesis. Free Radical Biology and Medicine, 2019, 140, 233-249.	1.3	38
31	FAD Binding by ApbE Protein from Salmonella enterica : a New Class of FAD-Binding Proteins. Journal of Bacteriology, 2011, 193, 887-895.	1.0	36
32	The Physiological Functions and Structural Determinants of Catalytic Bias in the [FeFe]-Hydrogenases CpI and CpII of Clostridium pasteurianum Strain W5. Frontiers in Microbiology, 2017, 8, 1305.	1.5	30
33	Biological albedo reduction on ice sheets, glaciers, and snowfields. Earth-Science Reviews, 2021, 220, 103728.	4.0	30
34	Energy, ecology and the distribution of microbial life. Philosophical Transactions of the Royal Society B: Biological Sciences, 2013, 368, 20120383.	1.8	28
35	Water column and sediment stable carbon isotope biogeochemistry of permanently redoxâ€stratified Fayetteville Green Lake, New York, U.S.A.. Limnology and Oceanography, 2018, 63, 570-587.	1.6	26
36	Snow algae drive productivity and weathering at volcanic rock-hosted glaciers. Geochimica Et Cosmochimica Acta, 2019, 247, 220-242.	1.6	26

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37	Radical AdoMet enzymes in complex metal cluster biosynthesis. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2012, 1824, 1254-1263.	1.1	25
38	Anoxygenic Phototrophs Span Geochemical Gradients and Diverse Morphologies in Terrestrial Geothermal Springs. MSystems, 2019, 4, .	1.7	24
39	Silica Dissolution and Precipitation in Glaciated Volcanic Environments and Implications for Mars. Geophysical Research Letters, 2018, 45, 7371-7381.	1.5	22
40	Metabolic diversity and ecological niches of Achromatium populations revealed with single-cell genomic sequencing. Frontiers in Microbiology, 2015, 6, 822.	1.5	20
41	Low-Light Anoxygenic Photosynthesis and Fe-S-Biogeochemistry in a Microbial Mat. Frontiers in Microbiology, 2018, 9, 858.	1.5	19
42	Inorganic carbon addition stimulates snow algae primary productivity. ISME Journal, 2020, 14, 857-860.	4.4	19
43	Molecular genetic and geochemical assays reveal severe contamination of drinking water reservoirs at the ancient Maya city of Tikal. Scientific Reports, 2020, 10, 10316.	1.6	19
44	Draft Genome Sequence of a Sulfide-Oxidizing, Autotrophic Filamentous Anoxygenic Phototrophic Bacterium, Chloroflexus sp. Strain MS-G (Chloroflexi). Genome Announcements, 2014, 2, .	0.8	18
45	Oxygenic and anoxygenic photosynthesis in a microbial mat from an anoxic and sulfidic spring. Environmental Microbiology, 2017, 19, 1251-1265.	1.8	18
46	Productivity and Community Composition of Low Biomass/High Silica Precipitation Hot Springs: A Possible Window to Earthâ€™s Early Biosphere?. Life, 2019, 9, 64.	1.1	18
47	[FeFe]-Hydrogenase Abundance and Diversity along a Vertical Redox Gradient in Great Salt Lake, USA. International Journal of Molecular Sciences, 2014, 15, 21947-21966.	1.8	17
48	Environmental DNA reveals arboreal cityscapes at the Ancient Maya Center of Tikal. Scientific Reports, 2021, 11, 12725.	1.6	16
49	Microbial communities and organic biomarkers in a Proterozoicâ€analog sinkhole. Geobiology, 2017, 15, 784-797.	1.1	14
50	Draft Genome Sequence of the Moderately Thermophilic Bacterium Schleiferia thermophila Strain Yellowstone (Bacteroidetes). Genome Announcements, 2014, 2, .	0.8	13
51	Geochemistry and microbial community composition across a range of acid mine drainage impact and implications for the Neoarcheanâ€Paleoproterozoic transition. Journal of Geophysical Research G: Biogeosciences, 2017, 122, 1404-1422.	1.3	12
52	Differential Accumulation of nif Structural Gene mRNA in Azotobacter vinelandii. Journal of Bacteriology, 2011, 193, 4534-4536.	1.0	11
53	Substrate preference, uptake kinetics and bioenergetics in a facultatively autotrophic, thermoacidophilic crenarchaeote. FEMS Microbiology Ecology, 2016, 92, fiw069.	1.3	10
54	Trace Element Concentrations in Hydrothermal Silica Deposits as a Potential Biosignature. Astrobiology, 2020, 20, 525-536.	1.5	10

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55	Hypolithic Photosynthesis in Hydrothermal Areas and Implications for Cryptic Oxygen Oases on Archean Continental Surfaces. Frontiers in Earth Science, 2019, 7, .	0.8	9
56	Metabolic diversity and co-occurrence of multiple Ferrovum species at an acid mine drainage site. BMC Microbiology, 2020, 20, 119.	1.3	9
57	Metagenome-Assembled Genomes of Novel Taxa from an Acid Mine Drainage Environment. Applied and Environmental Microbiology, 2021, 87, e0077221.	1.4	9
58	Carbon and nitrogen recycling during cyanoHABs in dreissenid-invaded and non-invaded US midwestern lakes and reservoirs. Hydrobiologia, 2020, 847, 939-965.	1.0	8
59	Recharge from glacial meltwater is critical for alpine springs and their microbiomes. Environmental Research Letters, 2021, 16, 064012.	2.2	8
60	Genomics, Exometabolomics, and Metabolic Probing Reveal Conserved Proteolytic Metabolism of Thermoflexus hugenholtzii and Three Candidate Species From China and Japan. Frontiers in Microbiology, 2021, 12, 632731.	1.5	8
61	Temperature and Geographic Location Impact the Distribution and Diversity of Photoautotrophic Gene Variants in Alkaline Yellowstone Hot Springs. Microbiology Spectrum, 2022, 10, e0146521.	1.2	7
62	Cloning, sequence analysis and confirmation of derived gene sequences for three epitope-mapped monoclonal antibodies against human phagocyte flavocytochrome b. Molecular Immunology, 2007, 44, 625-637.	1.0	6
63	Matrotrophic viviparity constrains microbiome acquisition during gestation in a liveâ€bearing cockroach, Diploptera punctata. Ecology and Evolution, 2019, 9, 10601-10614.	0.8	6
64	Meet Me in the Middle: Median Temperatures Impact Cyanobacteria and Photoautotrophy in Eruptive Yellowstone Hot Springs. MSystems, 2022, 7, e0145021.	1.7	6
65	Hot Spring Microbial Community Elemental Composition: Hot Spring and Soil Inputs, and the Transition from Biocumulus to Siliceous Sinter. Astrobiology, 2021, 21, 1526-1546.	1.5	6
66	The effect of woodchip bioreactors on microbial concentration in subsurface drainage water and the associated risk of antibiotic resistance dissemination. Ecological Engineering: X, 2020, 143, 100017.	3.5	4
67	Paleoecological Studies at the Ancient Maya Center of Yaxnohcah Using Analyses of Pollen, Environmental DNA, and Plant Macroremains. Frontiers in Ecology and Evolution, 0, 10, .	1.1	4
68	Draft Genome Sequence of Anoxybacillus ayderensis Strain MT-Cab (Firmicutes). Genome Announcements, 2017, 5, .	0.8	3
69	Diversity and distribution of sediment bacteria across an ecological and trophic gradient. PLoS ONE, 2022, 17, e0258079.	1.1	3
70	Characterization of diverse bacteriohopanepolyols in a permanently stratified, hyper-euxinic lake. Organic Geochemistry, 2022, 168, 104431.	0.9	3
71	The Antarctic mite, Alaskozetes antarcticus, shares bacterial microbiome community membership but not abundance between adults and tritonymphs. Polar Biology, 2019, 42, 2075-2085.	0.5	2