

Trinity Hamilton

List of Publications by Year in descending order

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Version: 2024-02-01

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	Meet Me in the Middle: Median Temperatures Impact Cyanobacteria and Photoautotrophy in Eruptive Yellowstone Hot Springs. <i>MSystems</i> , 2022, 7, e0145021.	1.7	6
2	Diversity and distribution of sediment bacteria across an ecological and trophic gradient. <i>PLoS ONE</i> , 2022, 17, e0258079.	1.1	3
3	Characterization of diverse bacteriohopanepolyols in a permanently stratified, hyper-euxinic lake. <i>Organic Geochemistry</i> , 2022, 168, 104431.	0.9	3
4	Temperature and Geographic Location Impact the Distribution and Diversity of Photoautotrophic Gene Variants in Alkaline Yellowstone Hot Springs. <i>Microbiology Spectrum</i> , 2022, 10, e0146521.	1.2	7
5	Recharge from glacial meltwater is critical for alpine springs and their microbiomes. <i>Environmental Research Letters</i> , 2021, 16, 064012.	2.2	8
6	Genomics, Exometabolomics, and Metabolic Probing Reveal Conserved Proteolytic Metabolism of <i>Thermoflexus hugenholtzii</i> and Three Candidate Species From China and Japan. <i>Frontiers in Microbiology</i> , 2021, 12, 632731.	1.5	8
7	Environmental DNA reveals arboreal cityscapes at the Ancient Maya Center of Tikal. <i>Scientific Reports</i> , 2021, 11, 12725.	1.6	16
8	Metagenome-Assembled Genomes of Novel Taxa from an Acid Mine Drainage Environment. <i>Applied and Environmental Microbiology</i> , 2021, 87, e0077221.	1.4	9
9	Biological albedo reduction on ice sheets, glaciers, and snowfields. <i>Earth-Science Reviews</i> , 2021, 220, 103728.	4.0	30
10	Hot Spring Microbial Community Elemental Composition: Hot Spring and Soil Inputs, and the Transition from Biocumulus to Siliceous Sinter. <i>Astrobiology</i> , 2021, 21, 1526-1546.	1.5	6
11	Inorganic carbon addition stimulates snow algae primary productivity. <i>ISME Journal</i> , 2020, 14, 857-860.	4.4	19
12	Carbon and nitrogen recycling during cyanoHABs in dreissenid-invaded and non-invaded US midwestern lakes and reservoirs. <i>Hydrobiologia</i> , 2020, 847, 939-965.	1.0	8
13	Trace Element Concentrations in Hydrothermal Silica Deposits as a Potential Biosignature. <i>Astrobiology</i> , 2020, 20, 525-536.	1.5	10
14	Metabolic diversity and co-occurrence of multiple <i>Ferrovum</i> species at an acid mine drainage site. <i>BMC Microbiology</i> , 2020, 20, 119.	1.3	9
15	Molecular genetic and geochemical assays reveal severe contamination of drinking water reservoirs at the ancient Maya city of Tikal. <i>Scientific Reports</i> , 2020, 10, 10316.	1.6	19
16	Temperature impacts community structure and function of phototrophic Chloroflexi and Cyanobacteria in two alkaline hot springs in Yellowstone National Park. <i>Environmental Microbiology Reports</i> , 2020, 12, 503-513.	1.0	52
17	The effect of woodchip bioreactors on microbial concentration in subsurface drainage water and the associated risk of antibiotic resistance dissemination. <i>Ecological Engineering: X</i> , 2020, 143, 100017.	3.5	4
18	Productivity and Community Composition of Low Biomass/High Silica Precipitation Hot Springs: A Possible Window to Earth's Early Biosphere?. <i>Life</i> , 2019, 9, 64.	1.1	18

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19	Matrotrophic viviparity constrains microbiome acquisition during gestation in a live-bearing cockroach, <i>Diploptera punctata</i> . <i>Ecology and Evolution</i> , 2019, 9, 10601-10614.	0.8	6
20	The Antarctic mite, <i>Alaskozetes antarcticus</i> , shares bacterial microbiome community membership but not abundance between adults and tritonymphs. <i>Polar Biology</i> , 2019, 42, 2075-2085.	0.5	2
21	Hypolithic Photosynthesis in Hydrothermal Areas and Implications for Cryptic Oxygen Oases on Archean Continental Surfaces. <i>Frontiers in Earth Science</i> , 2019, 7, .	0.8	9
22	The trouble with oxygen: The ecophysiology of extant phototrophs and implications for the evolution of oxygenic photosynthesis. <i>Free Radical Biology and Medicine</i> , 2019, 140, 233-249.	1.3	38
23	Anoxygenic Phototrophs Span Geochemical Gradients and Diverse Morphologies in Terrestrial Geothermal Springs. <i>MSystems</i> , 2019, 4, .	1.7	24
24	Snow algae drive productivity and weathering at volcanic rock-hosted glaciers. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 247, 220-242.	1.6	26
25	Cyanobacterial photosynthesis under sulfidic conditions: insights from the isolate <i>Leptolyngbya</i> sp. strain hensonii. <i>ISME Journal</i> , 2018, 12, 568-584.	4.4	50
26	Geobiological feedbacks and the evolution of thermoacidophiles. <i>ISME Journal</i> , 2018, 12, 225-236.	4.4	70
27	Water column and sediment stable carbon isotope biogeochemistry of permanently redox-stratified Fayetteville Green Lake, New York, U.S.A.. <i>Limnology and Oceanography</i> , 2018, 63, 570-587.	1.6	26
28	Low-Light Anoxygenic Photosynthesis and Fe-S-Biogeochemistry in a Microbial Mat. <i>Frontiers in Microbiology</i> , 2018, 9, 858.	1.5	19
29	Silica Dissolution and Precipitation in Glaciated Volcanic Environments and Implications for Mars. <i>Geophysical Research Letters</i> , 2018, 45, 7371-7381.	1.5	22
30	Effect of salinity on mercury methylating benthic microbes and their activities in Great Salt Lake, Utah. <i>Science of the Total Environment</i> , 2017, 581-582, 495-506.	3.9	40
31	Primary productivity of snow algae communities on stratovolcanoes of the Pacific Northwest. <i>Geobiology</i> , 2017, 15, 280-295.	1.1	54
32	Microbial ecology of mountain glacier ecosystems: biodiversity, ecological connections and implications of a warming climate. <i>Environmental Microbiology</i> , 2017, 19, 2935-2948.	1.8	130
33	Oxygenic and anoxygenic photosynthesis in a microbial mat from an anoxic and sulfidic spring. <i>Environmental Microbiology</i> , 2017, 19, 1251-1265.	1.8	18
34	Microbial communities and organic biomarkers in a Proterozoic analog sinkhole. <i>Geobiology</i> , 2017, 15, 784-797.	1.1	14
35	Draft Genome Sequence of <i>Anoxybacillus ayderensis</i> Strain MT-Cab (Firmicutes). <i>Genome Announcements</i> , 2017, 5, .	0.8	3
36	Sulfur and carbon isotopic evidence for metabolic pathway evolution and a four-stepped Earth system progression across the Archean and Paleoproterozoic. <i>Earth-Science Reviews</i> , 2017, 174, 1-21.	4.0	58

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37	Hot Spring Microbial Community Composition, Morphology, and Carbon Fixation: Implications for Interpreting the Ancient Rock Record. <i>Frontiers in Earth Science</i> , 2017, 5, .	0.8	50
38	The Physiological Functions and Structural Determinants of Catalytic Bias in the [FeFe]-Hydrogenases Cpl and Cpll of <i>Clostridium pasteurianum</i> Strain W5. <i>Frontiers in Microbiology</i> , 2017, 8, 1305.	1.5	30
39	Geochemistry and microbial community composition across a range of acid mine drainage impact and implications for the Neoproterozoic to Paleoproterozoic transition. <i>Journal of Geophysical Research: Biogeosciences</i> , 2017, 122, 1404-1422.	1.3	12
40	Carbon and Sulfur Cycling below the Chemocline in a Meromictic Lake and the Identification of a Novel Taxonomic Lineage in the FCB Superphylum, <i>Candidatus Aegiribacteria</i> . <i>Frontiers in Microbiology</i> , 2016, 7, 598.	1.5	51
41	Substrate preference, uptake kinetics and bioenergetics in a facultatively autotrophic, thermoacidophilic crenarchaeote. <i>FEMS Microbiology Ecology</i> , 2016, 92, fiv069.	1.3	10
42	The role of biology in planetary evolution: cyanobacterial primary production in low-oxygen Proterozoic oceans. <i>Environmental Microbiology</i> , 2016, 18, 325-340.	1.8	151
43	Aerobic and Anaerobic Thiosulfate Oxidation by a Cold-Adapted, Subglacial Chemoautotroph. <i>Applied and Environmental Microbiology</i> , 2016, 82, 1486-1495.	1.4	62
44	The behavior of biologically important trace elements across the oxic/euxinic transition of meromictic Fayetteville Green Lake, New York, USA. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 165, 389-406.	1.6	52
45	Metabolic diversity and ecological niches of <i>Achromatium</i> populations revealed with single-cell genomic sequencing. <i>Frontiers in Microbiology</i> , 2015, 6, 822.	1.5	20
46	Evolution of Molybdenum Nitrogenase during the Transition from Anaerobic to Aerobic Metabolism. <i>Journal of Bacteriology</i> , 2015, 197, 1690-1699.	1.0	97
47	Rock comminution as a source of hydrogen for subglacial ecosystems. <i>Nature Geoscience</i> , 2015, 8, 851-855.	5.4	82
48	[FeFe]-Hydrogenase Abundance and Diversity along a Vertical Redox Gradient in Great Salt Lake, USA. <i>International Journal of Molecular Sciences</i> , 2014, 15, 21947-21966.	1.8	17
49	Draft Genome Sequence of the Moderately Thermophilic Bacterium <i>Schleiferia thermophila</i> Strain Yellowstone (<i>Bacteroidetes</i>). <i>Genome Announcements</i> , 2014, 2, .	0.8	13
50	Draft Genome Sequence of a Sulfide-Oxidizing, Autotrophic Filamentous Anoxygenic Phototrophic Bacterium, <i>Chloroflexus</i> sp. Strain MS-G (<i>Chloroflexi</i>). <i>Genome Announcements</i> , 2014, 2, .	0.8	18
51	Coupled reductive and oxidative sulfur cycling in the phototrophic plate of a meromictic lake. <i>Geobiology</i> , 2014, 12, 451-468.	1.1	45
52	Chemolithotrophic Primary Production in a Subglacial Ecosystem. <i>Applied and Environmental Microbiology</i> , 2014, 80, 6146-6153.	1.4	92
53	Competition for Ammonia Influences the Structure of Chemotrophic Communities in Geothermal Springs. <i>Applied and Environmental Microbiology</i> , 2014, 80, 653-661.	1.4	46
54	Metagenomic insights into S(0) precipitation in a terrestrial subsurface lithoautotrophic ecosystem. <i>Frontiers in Microbiology</i> , 2014, 5, 756.	1.5	75

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55	Energy, ecology and the distribution of microbial life. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2013, 368, 20120383.	1.8	28
56	Molecular evidence for an active endogenous microbiome beneath glacial ice. <i>ISME Journal</i> , 2013, 7, 1402-1412.	4.4	116
57	The Role of Tetraether Lipid Composition in the Adaptation of Thermophilic Archaea to Acidity. <i>Frontiers in Microbiology</i> , 2013, 4, 62.	1.5	69
58	Environmental constraints defining the distribution, composition, and evolution of chlorophototrophs in thermal features of Yellowstone National Park. <i>Geobiology</i> , 2012, 10, 236-249.	1.1	42
59	Radical AdoMet enzymes in complex metal cluster biosynthesis. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2012, 1824, 1254-1263.	1.1	25
60	Transcriptional Profiling of Nitrogen Fixation in <i>Azotobacter vinelandii</i> . <i>Journal of Bacteriology</i> , 2011, 193, 4477-4486.	1.0	99
61	An Alternative Path for the Evolution of Biological Nitrogen Fixation. <i>Frontiers in Microbiology</i> , 2011, 2, 205.	1.5	105
62	Biological nitrogen fixation in acidic high-temperature geothermal springs in Yellowstone National Park, Wyoming. <i>Environmental Microbiology</i> , 2011, 13, 2204-2215.	1.8	45
63	A late methanogen origin for molybdenum-dependent nitrogenase. <i>Geobiology</i> , 2011, 9, 221-232.	1.1	141
64	Environmental Constraints Underpin the Distribution and Phylogenetic Diversity of <i>nifH</i> in the Yellowstone Geothermal Complex. <i>Microbial Ecology</i> , 2011, 61, 860-870.	1.4	40
65	Diversity, Abundance, and Potential Activity of Nitrifying and Nitrate-Reducing Microbial Assemblages in a Subglacial Ecosystem. <i>Applied and Environmental Microbiology</i> , 2011, 77, 4778-4787.	1.4	119
66	FAD Binding by ApbE Protein from <i>Salmonella enterica</i> : a New Class of FAD-Binding Proteins. <i>Journal of Bacteriology</i> , 2011, 193, 887-895.	1.0	36
67	Differential Accumulation of <i>nif</i> Structural Gene mRNA in <i>Azotobacter vinelandii</i> . <i>Journal of Bacteriology</i> , 2011, 193, 4534-4536.	1.0	11
68	[FeFe]-hydrogenase in Yellowstone National Park: evidence for dispersal limitation and phylogenetic niche conservatism. <i>ISME Journal</i> , 2010, 4, 1485-1495.	4.4	63
69	Crystal Structure of the L Protein of <i>Rhodobacter sphaeroides</i> Light-Independent Protochlorophyllide Reductase with MgADP Bound: A Homologue of the Nitrogenase Fe Protein. <i>Biochemistry</i> , 2008, 47, 13004-13015.	1.2	66
70	Cloning, sequence analysis and confirmation of derived gene sequences for three epitope-mapped monoclonal antibodies against human phagocyte flavocytochrome b. <i>Molecular Immunology</i> , 2007, 44, 625-637.	1.0	6
71	Paleoecological Studies at the Ancient Maya Center of Yaxnohcah Using Analyses of Pollen, Environmental DNA, and Plant Macroremains. <i>Frontiers in Ecology and Evolution</i> , 0, 10, .	1.1	4