Lewis M Ward

List of Publications by Year
in descending order

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Version: 2024-02-01

43 papers	1,874 citations	279798 23 h-index	289244 40 g-index
55 all docs	55 docs citations	55 times ranked	2058 citing authors

#	Article	IF	Citations
1	Oxygen requirements of the earliest animals. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 4168-4172.	7.1	276
2	Crown group Oxyphotobacteria postdate the rise of oxygen. Geobiology, 2017, 15, 19-29.	2.4	153
3	Evolution of Phototrophy in the Chloroflexi Phylum Driven by Horizontal Gene Transfer. Frontiers in Microbiology, 2018, 9, 260.	3.5	143
4	Development of an Optimized Medium, Strain and High-Throughput Culturing Methods for Methylobacterium extorquens. PLoS ONE, 2013, 8, e62957.	2.5	122
5	Evolution of the 3-hydroxypropionate bicycle and recent transfer of anoxygenic photosynthesis into the Chloroflexi. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 10749-10754.	7.1	108
6	Evolutionary Implications of Anoxygenic Phototrophy in the Bacterial Phylum Candidatus Eremiobacterota (WPS-2). Frontiers in Microbiology, 2019, 10, 1658.	3.5	88
7	Timescales of Oxygenation Following the Evolution of Oxygenic Photosynthesis. Origins of Life and Evolution of Biospheres, 2016, 46, 51-65.	1.9	72
8	Primary Productivity Was Limited by Electron Donors Prior to the Advent of Oxygenic Photosynthesis. Journal of Geophysical Research G: Biogeosciences, 2019, 124, 211-226.	3.0	69
9	The gut of the finch: uniqueness of the gut microbiome of the GalÃ¡pagos vampire finch. Microbiome, 2018, 6, 167.	11.1	63
10	The evolution and productivity of carbon fixation pathways in response to changes in oxygen concentration over geological time. Free Radical Biology and Medicine, 2019, 140, 188-199.	2.9	59
11	O2 solubility in Martian near-surface environments and implications for aerobic life. Nature Geoscience, 2018, 11, 905-909.	12.9	57
12	MetaPOAP: presence or absence of metabolic pathways in metagenome-assembled genomes. Bioinformatics, 2018, 34, 4284-4286.	4.1	50
13	Geochemical and Metagenomic Characterization of Jinata Onsen, a Proterozoic-Analog Hot Spring, Reveals Novel Microbial Diversity including Iron-Tolerant Phototrophs and Thermophilic Lithotrophs. Microbes and Environments, 2019, 34, 278-292.	1.6	48
14	The next frontier for planetary and human exploration. Nature Astronomy, 2019, 3, 116-120.	10.1	39
15	Gene Sequencing-Based Analysis of Microbial-Mat Morphotypes, Caicos Platform, British West Indies. Journal of Sedimentary Research, 2016, 86, 629-636.	1.6	38
16	Genomic Reconstruction of an Uncultured Hydrothermal Vent Gammaproteobacterial Methanotroph (Family Methylothermaceae) Indicates Multiple Adaptations to Oxygen Limitation. Frontiers in Microbiology, 2015, 6, 1425.	3.5	36
17	Draft Genome Sequence of Leptolinea tardivitalis YMTK-2, a Mesophilic Anaerobe from the Chloroflexi Class Anaerolineae. Genome Announcements, 2015, 3, .	0.8	33
18	Microbial diversity and iron oxidation at Okuokuâ€hachikurou Onsen, a Japanese hot spring analog of Precambrian iron formations. Geobiology, 2017, 15, 817-835.	2.4	33

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19	Draft Genome Sequence of Ardenticatena maritima 110S, a Thermophilic Nitrate- and Iron-Reducing Member of the Chloroflexi Class Ardenticatenia. Genome Announcements, 2015, 3, .	0.8	31
20	Draft Genome Sequences of a Novel Lineage of Armatimonadetes Recovered from Japanese Hot Springs. Genome Announcements, 2017, 5, .	0.8	31
21	Draft Genome of Thermanaerothrix daxensis GNS-1, a Thermophilic Facultative Anaerobe from the Chloroflexi Class Anaerolineae. Genome Announcements, 2015, 3, .	0.8	28
22	Draft Genome Sequence of Levilinea saccharolytica KIBI-1, a Member of the Chloroflexi Class Anaerolineae. Genome Announcements, 2015, 3, .	0.8	28
23	Draft Genome Sequence of Herpetosiphon geysericola GC-42, a Nonphototrophic Member of the Chloroflexi Class Chloroflexia. Genome Announcements, 2015, 3, .	0.8	27
24	Draft Genome Sequence of Ornatilinea apprima P3M-1, an Anaerobic Member of the Chloroflexi Class Anaerolineae. Genome Announcements, 2015, 3, .	0.8	20
25	Draft Genome Sequence of Chloracidobacterium sp. CP2_5A, a Phototrophic Member of the Phylum Acidobacteria Recovered from a Japanese Hot Spring. Genome Announcements, 2017, 5, .	0.8	19
26	Follow the Oxygen: Comparative Histories of Planetary Oxygenation and Opportunities for Aerobic Life. Astrobiology, 2019, 19, 811-824.	3.0	17
27	Draft Genome Sequences of Two Basal Members of the Anaerolineae Class of Chloroflexi from a Sulfidic Hot Spring. Genome Announcements, 2018, 6, .	0.8	15
28	Microbial mats in the Turks and Caicos Islands reveal diversity and evolution of phototrophy in the Chloroflexota order Aggregatilineales. Environmental Microbiomes, 2020, 15, 9.	5.0	15
29	Expanded Genomic Sampling Refines Current Understanding of the Distribution and Evolution of Sulfur Metabolisms in the Desulfobulbales. Frontiers in Microbiology, 2021, 12, 666052.	3.5	15
30	Phanerozoic radiation of ammonia oxidizing bacteria. Scientific Reports, 2021, 11, 2070.	3.3	14
31	Draft Genome Sequence of a Divergent Anaerobic Member of the Chloroflexi Class Ardenticatenia from a Sulfidic Hot Spring. Genome Announcements, 2018, 6, .	0.8	13
32	<i>Candidatus</i> Anthektikosiphon siderophilum OHK22, a New Member of the Chloroflexi Family Herpetosiphonaceae from Oku-okuhachikurou Onsen. Microbes and Environments, 2020, 35, n/a.	1.6	12
33	Interâ€domain horizontal gene transfer of nickelâ€binding superoxide dismutase. Geobiology, 2021, 19, 450-459.	2.4	11
34	Granick revisited: Synthesizing evolutionary and ecological evidence for the late origin of bacteriochlorophyll via ghost lineages and horizontal gene transfer. PLoS ONE, 2021, 16, e0239248.	2.5	10
35	Draft Genome Sequence of Hydrogenibacillus schlegelii MA48, a Deep-Branching Member of the Bacilli Class of Firmicutes. Genome Announcements, 2017, 5, .	0.8	7
36	Draft Genome Sequence of Desulfofundulus thermobenzoicus subsp. thermosyntrophicus DSM 14055, a Moderately Thermophilic Sulfate Reducer. Microbiology Resource Announcements, 2020, 9, .	0.6	7

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37	Draft Genome Sequence of Acidianus ambivalens DSM 3772, an Aerobic Thermoacidophilic Sulfur Disproportionator. Microbiology Resource Announcements, 2020, 9, .	0.6	6
38	Draft Genome Sequence of Desulfovibrio sulfodismutans ThAc01, a Heterotrophic Sulfur-Disproportionating Member of the Desulfobacterota. Microbiology Resource Announcements, 2020, 9, .	0.6	5
39	Complex History of Aerobic Respiration and Phototrophy in the <i>Chloroflexota</i> Class <i>Anaerolineae</i> Revealed by High-Quality Draft Genome of <i>Ca.</i> Roseilinea mizusawaensis AA3_104. Microbes and Environments, 2021, 36, n/a.	1.6	5
40	The <i>Thermosynechococcus</i> Genus: Wide Environmental Distribution, but a Highly Conserved Genomic Core. Microbes and Environments, 2021, 36, n/a.	1.6	5
41	Changes in ATP Sulfurylase Activity in Response to Altered Cyanobacteria Growth Conditions. Microbes and Environments, 2021, 36, n/a.	1.6	2
42	Genomic sequence analysis of Dissulfurirhabdus thermomarina SH388 and proposed reassignment to Dissulfurirhabdaceae fam. nov.. Microbial Genomics, 2020, 6, .	2.0	2
43	Draft Genome Sequence of Desulfobacter hydrogenophilus DSM 3380, a Psychrotolerant Sulfate-Reducing Bacterium. Microbiology Resource Announcements, 2020, 9, .	0.6	1