Laurence G Miller

List of Publications by Year
in descending order

51 papers	3,636 citations	136950 32 h-index	182427 51 g-index
54 all docs	54 docs citations	54 times ranked	2949 citing authors

#	Article	IF	Citations
1	Microbial succession and dynamics in meromictic Mono Lake, California. Geobiology, 2021, 19, 376-393.	2.4	15
2	Arsenolipids in Cultured Picocystis Strain ML and Their Occurrence in Biota and Sediment from Mono Lake, California. Life, 2020, 10, 93.	2.4	20
3	Acetylenotrophy: a hidden but ubiquitous microbial metabolism?. FEMS Microbiology Ecology, 2018, 94, .	2.7	14
4	Metabolic Capability and Phylogenetic Diversity of Mono Lake during a Bloom of the Eukaryotic Phototroph Picocystis sp. Strain ML. Applied and Environmental Microbiology, 2018, 84, .	3.1	18
5	Methane fluxes from tropical coastal lagoons surrounded by mangroves, YucatÃ¡n, Mexico. Journal of Geophysical Research G: Biogeosciences, 2017, 122, 1156-1174.	3.0	46
6	The genetic basis of anoxygenic photosynthetic arsenite oxidation. Environmental Microbiology, 2017, 19, 130-141.	3.8	37
7	Methane and sulfate dynamics in sediments from mangrove-dominated tropical coastal lagoons, YucatÃ¡n, Mexico. Biogeosciences, 2016, 13, 2981-3001.	3.3	29
8	Genome Sequence of the Photoarsenotrophic Bacterium Ectothiorhodospira sp. Strain BSL-9, Isolated from a Hypersaline Alkaline Arsenic-Rich Extreme Environment. Genome Announcements, 2016, 4, .	0.8	9
9	A Microbial Arsenic Cycle in Sediments of an Acidic Mine Impoundment: Herman Pit, Clear Lake, California. Geomicrobiology Journal, 2016, 33, 677-689.	2.0	9
10	Stable Carbon Isotope Fractionation during Bacterial Acetylene Fermentation: Potential for Life Detection in Hydrocarbon-Rich Volatiles of Icy Planet(oid)s. Astrobiology, 2015, 15, 977-986.	3.0	11
11	Methane Oxidation and Molecular Characterization of Methanotrophs from a Former Mercury Mine Impoundment. Microorganisms, 2015, 3, 290-309.	3.6	19
12	Microbiological Oxidation of Antimony(III) with Oxygen or Nitrate by Bacteria Isolated from Contaminated Mine Sediments. Applied and Environmental Microbiology, 2015, 81, 8478-8488.	3.1	93
13	Methane oxidation linked to chlorite dismutation. Frontiers in Microbiology, 2014, 5, 275.	3.5	15
14	Microbiological Reduction of Sb(V) in Anoxic Freshwater Sediments. Environmental Science & Technology, 2014, 48, 218-226.	10.0	108
15	A Biogeochemical and Genetic Survey of Acetylene Fermentation by Environmental Samples and Bacterial Isolates. Geomicrobiology Journal, 2013, 30, 501-516.	2.0	26
16	Desulfohalophilus alkaliarsenatis gen. nov., sp. nov., an extremely halophilic sulfate- and arsenate-respiring bacterium from Searles Lake, California. Extremophiles, 2012, 16, 727-742.	2.3	48
17	Electricity generation by anaerobic bacteria and anoxic sediments from hypersaline soda lakes. Extremophiles, 2008, 12, 837-848.	2.3	32
18	Arsenic(III) Fuels Anoxygenic Photosynthesis in Hot Spring Biofilms from Mono Lake, California. Science, 2008, 321, 967-970.	12.6	214

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19	Bacterial Cycling of Methyl Halides. Advances in Applied Microbiology, 2007, 61, 307-346.	2.4	30
20	Dissimilatory Arsenate and Sulfate Reduction in Sediments of Two Hypersaline, Arsenic-Rich Soda Lakes: Mono and Searles Lakes, California. Applied and Environmental Microbiology, 2006, 72, 6514-6526.	3.1	115
21	Laboratory Determination of the Carbon Kinetic Isotope Effects (KIEs) for Reactions of Methyl Halides with Various Nucleophiles in Solution. Journal of Atmospheric Chemistry, 2005, 52, 203-219.	3.2	8
22	Aminobacter ciceronei sp. nov. and Aminobacter lissarensis sp. nov., isolated from various terrestrial environments. International Journal of Systematic and Evolutionary Microbiology, 2005, 55, 1827-1832.	1.7	46
23	A Microbial Arsenic Cycle in a Salt-Saturated, Extreme Environment. Science, 2005, 308, 1305-1308.	12.6	158
24	Degradation of methyl bromide and methyl chloride in soil microcosms: Use of stable C isotope fractionation and stable isotope probing to identify reactions and the responsible microorganisms. Geochimica Et Cosmochimica Acta, 2004, 68, 3271-3283.	3.9	87
25	Bioreactors for Removing Methyl Bromide following Contained Fumigations. Environmental Science & Technology, 2003, 37, 1698-1704.	10.0	7
26	Distribution, production, and ecophysiology of Picocystis strain ML in Mono Lake, California. Limnology and Oceanography, 2002, 47, 440-452.	3.1	87
27	Carbon isotope fractionation of methyl bromideduring agricultural soil fumigations. Biogeochemistry, 2002, 60, 181-190.	3.5	12
28	Continuous flow stable isotope methods for study of ?13C fractionation during halomethane production and degradation. Rapid Communications in Mass Spectrometry, 2001, 15, 357-363.	1.5	28
29	Large carbon isotope fractionation associated with oxidation of methyl halides by methylotrophic bacteria. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 5833-5837.	7.1	70
30	Bacterial dissimilatory reduction of arsenate and sulfate in meromictic Mono Lake, California. Geochimica Et Cosmochimica Acta, 2000, 64, 3073-3084.	3.9	147
31	Oxidation of ammonia and methane in an alkaline, saline lake. Limnology and Oceanography, 1999, 44, 178-188.	3.1	110
32	Bacterial Oxidation of Methyl Bromide in Mono Lake, California. Environmental Science & Technology, 1997, 31, 1489-1495.	10.0	22
33	Bacterial oxidation of methyl bromide in fumigated agricultural soils. Applied and Environmental Microbiology, 1997, 63, 4346-4354.	3.1	68
34	Effects of glacial meltwater inflows and moat freezing on mixing in an ice-covered antarctic lake as interpreted from stable isotope and tritium distributions. Limnology and Oceanography, 1996, 41, 966-976.	3.1	37
35	Methylmercury oxidative degradation potentials in contaminated and pristine sediments of the carson river, nevada. Applied and Environmental Microbiology, 1995, 61, 2745-2753.	3.1	81
36	Degradation of Methyl Bromide in Anaerobic Sediments. Environmental Science & Technology, 1994, 28, 514-520.	10.0	80

#	Article	IF	Citations
37	Degradation of methyl bromide by methanotrophic bacteria in cell suspensions and soils. Applied and Environmental Microbiology, 1994, 60, 3640-3646.	3.1	69
38	Isolation, Growth, and Metabolism of an Obligately Anaerobic, Selenate-Respiring Bacterium, Strain SES-3. Applied and Environmental Microbiology, 1994, 60, 3011-3019.	3.1	215
39	The geochemistry of methane in Lake Fryxell, an amictic, permanently ice-covered, antarctic lake. Biogeochemistry, 1993, 21, 95-115.	3.5	40
40	Meromixis in hypersaline Mono Lake, California. 3. Biogeochemical response to stratification and overturn. Limnology and Oceanography, 1993, 38, 1040-1051.	3.1	45
41	Meromixis in hypersaline Mono Lake, California. 2. Nitrogen fluxes. Limnology and Oceanography, 1993, 38, 1020-1039.	3.1	71
42	Aspects of the Biogeochemistry of Methane in Mono Lake and the Mono Basin of California. , 1993, , 704-741.		33
43	Selective Inhibition of Ammonium Oxidation and Nitrification-Linked N ₂ O Formation by Methyl Fluoride and Dimethyl Ether. Applied and Environmental Microbiology, 1993, 59, 2457-2464.	3.1	60
44	In situ bacterial selenate reduction in the agricultural drainage systems of western Nevada. Applied and Environmental Microbiology, 1991, 57, 615-617.	3.1	82
45	Measurement of in situ rates of selenate removal by dissimilatory bacterial reduction in sediments. Environmental Science & Technology, 1990, 24, 1157-1164.	10.0	142
46	Selenate Reduction to Elemental Selenium by Anaerobic Bacteria in Sediments and Culture: Biogeochemical Significance of a Novel, Sulfate-Independent Respiration. Applied and Environmental Microbiology, 1989, 55, 2333-2343.	3.1	326
47	Methane efflux from the pelagic regions of four lakes. Global Biogeochemical Cycles, 1988, 2, 269-277.	4.9	39
48	Sources and flux of natural gases from Mono Lake, California. Geochimica Et Cosmochimica Acta, 1987, 51, 2915-2929.	3.9	144
49	Fallout plutonium in two oxic-anoxic environments1. Limnology and Oceanography, 1986, 31, 1110-1121.	3.1	18
50	Metabolism of Reduced Methylated Sulfur Compounds in Anaerobic Sediments and by a Pure Culture of an Estuarine Methanogen. Applied and Environmental Microbiology, 1986, 52, 1037-1045.	3.1	238
51	Benthic fluxes in San Francisco Bay. Hydrobiologia, 1985, 129, 69-90.	2.0	152