Xinning Zhang

List of Publications by Year
in descending order

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29 papers	2,474 citations	471509 17 h-index	454955 30 g-index
33 all docs	33 docs citations	33 times ranked	3481 citing authors

#	Article	IF	Citations
1	Biohydrogen production relationship to biomass composition, growth, temperature and nitrogenase isoform in the anaerobic photoheterotrophic diazotroph Rhodopseudomonas palustris. International Journal of Hydrogen Energy, 2022, 47, 28399-28409.	7.1	3
2	Critical inundation level for methane emissions from wetlands. Environmental Research Letters, 2021, 16, 044038.	5.2	17
3	The role of oxygen in stimulating methane production in wetlands. Global Change Biology, 2021, 27, 5831-5847.	9.5	23
4	4D imaging reveals mechanisms of clay-carbon protection and release. Nature Communications, 2021, 12, 622.	12.8	39
5	Large Hydrogen Isotope Fractionation Distinguishes Nitrogenase-Derived Methane from Other Methane Sources. Applied and Environmental Microbiology, 2020, 86, .	3.1	8
6	Biological nitrogen fixation by alternative nitrogenases in terrestrial ecosystems: a review. Biogeochemistry, 2020, 149, 53-73.	3.5	79
7	Global Nitrogen Cycle: Critical Enzymes, Organisms, and Processes for Nitrogen Budgets and Dynamics. Chemical Reviews, 2020, 120, 5308-5351.	47.7	167
8	Carbon substrate reâ€orders relative growth of a bacterium using Moâ€, Vâ€, or Feâ€nitrogenase for nitrogen fixation. Environmental Microbiology, 2020, 22, 1397-1408.	3.8	25
9	Genetic, structural, and functional diversity of low and high-affinity siderophores in strains of nitrogen fixingAzotobacter chroococcum. Metallomics, 2019, 11, 201-212.	2.4	21
10	Molybdenum threshold for ecosystem scale alternative vanadium nitrogenase activity in boreal forests. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 24682-24688.	7.1	60
11	Effect of iron limitation on the isotopic composition of cellular and released fixed nitrogen in Azotobacter vinelandii. Geochimica Et Cosmochimica Acta, 2019, 244, 12-23.	3.9	9
12	The purple nonâ€sulfur bacterium Rhodopseudomonas palustris produces novel petrobactinâ€related siderophores under aerobic and anaerobic conditions. Environmental Microbiology, 2018, 20, 1667-1676.	3.8	13
13	Crochelins: Siderophores with an Unprecedented Ironâ€Chelating Moiety from the Nitrogenâ€Fixing Bacterium Azotobacter chroococcum. Angewandte Chemie, 2018, 130, 545-550.	2.0	11
14	Crochelins: Siderophores with an Unprecedented Ironâ€Chelating Moiety from the Nitrogenâ€Fixing Bacterium Azotobacter chroococcum. Angewandte Chemie - International Edition, 2018, 57, 536-541.	13.8	23
15	Biological nitrogen fixation by alternative nitrogenases in boreal cyanolichens: importance of molybdenum availability and implications for current biological nitrogen fixation estimates. New Phytologist, 2017, 213, 680-689.	7.3	54
16	Diversity and Activity of Alternative Nitrogenases in Sequenced Genomes and Coastal Environments. Frontiers in Microbiology, 2017, 8, 267.	3.5	56
17	Alternative nitrogenase activity in the environment and nitrogen cycle implications. Biogeochemistry, 2016, 127, 189-198.	3.5	56
18	The Siderophore Metabolome of Azotobacter vinelandii. Applied and Environmental Microbiology, 2016, 82, 27-39.	3.1	69

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19	Nitrogen isotope fractionation by alternative nitrogenases and past ocean anoxia. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 4782-4787.	7.1	158
20	Possible contribution of alternative nitrogenases to nitrogen fixation by asymbiotic N2-fixing bacteria in soils. Soil Biology and Biochemistry, 2014, 69, 413-420.	8.8	104
21	Genome-Wide Effects of Selenium and Translational Uncoupling on Transcription in the Termite Gut Symbiont Treponema primitia. MBio, 2013, 4, e00869-13.	4.1	1
22	Localizing transcripts to single cells suggests an important role of uncultured deltaproteobacteria in the termite gut hydrogen economy. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 16163-16168.	7.1	29
23	Evidence for Cascades of Perturbation and Adaptation in the Metabolic Genes of Higher Termite Gut Symbionts. MBio, 2012, 3, .	4.1	13
24	Genes for selenium dependent and independent formate dehydrogenase in the gut microbial communities of three lower, woodâ€feeding termites and a woodâ€feeding roach. Environmental Microbiology, 2011, 13, 307-323.	3.8	13
25	Selenium controls transcription of paralogous formate dehydrogenase genes in the termite gut acetogen, Treponema primitia. Environmental Microbiology, 2010, 12, 2245-2258.	3.8	30
26	Large D/H variations in bacterial lipids reflect central metabolic pathways. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 12580-12586.	7.1	176
27	Fate of DTPA, EDTA, and EDDS in Hydroponic Media and Effects on Plant Mineral Nutrition. Journal of Plant Nutrition, 2007, 30, 1229-1246.	1.9	21
28	Metagenomic and functional analysis of hindgut microbiota of a wood-feeding higher termite. Nature, 2007, 450, 560-565.	27.8	1,181
29	Ammonium sensitivity of biological nitrogen fixation by anaerobic diazotrophs in cultures and benthic marine sediments. Journal of Geophysical Research G: Biogeosciences, 0, , .	3.0	1