

Xinning Zhang

List of Publications by Year in descending order

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Version: 2024-02-01

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	Metagenomic and functional analysis of hindgut microbiota of a wood-feeding higher termite. <i>Nature</i> , 2007, 450, 560-565.	27.8	1,181
2	Large D/H variations in bacterial lipids reflect central metabolic pathways. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 12580-12586.	7.1	176
3	Global Nitrogen Cycle: Critical Enzymes, Organisms, and Processes for Nitrogen Budgets and Dynamics. <i>Chemical Reviews</i> , 2020, 120, 5308-5351.	47.7	167
4	Nitrogen isotope fractionation by alternative nitrogenases and past ocean anoxia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 4782-4787.	7.1	158
5	Possible contribution of alternative nitrogenases to nitrogen fixation by asymbiotic N ₂ -fixing bacteria in soils. <i>Soil Biology and Biochemistry</i> , 2014, 69, 413-420.	8.8	104
6	Biological nitrogen fixation by alternative nitrogenases in terrestrial ecosystems: a review. <i>Biogeochemistry</i> , 2020, 149, 53-73.	3.5	79
7	The Siderophore Metabolome of <i>Azotobacter vinelandii</i> . <i>Applied and Environmental Microbiology</i> , 2016, 82, 27-39.	3.1	69
8	Molybdenum threshold for ecosystem scale alternative vanadium nitrogenase activity in boreal forests. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 24682-24688.	7.1	60
9	Alternative nitrogenase activity in the environment and nitrogen cycle implications. <i>Biogeochemistry</i> , 2016, 127, 189-198.	3.5	56
10	Diversity and Activity of Alternative Nitrogenases in Sequenced Genomes and Coastal Environments. <i>Frontiers in Microbiology</i> , 2017, 8, 267.	3.5	56
11	Biological nitrogen fixation by alternative nitrogenases in boreal cyanolichens: importance of molybdenum availability and implications for current biological nitrogen fixation estimates. <i>New Phytologist</i> , 2017, 213, 680-689.	7.3	54
12	4D imaging reveals mechanisms of clay-carbon protection and release. <i>Nature Communications</i> , 2021, 12, 622.	12.8	39
13	Selenium controls transcription of paralogous formate dehydrogenase genes in the termite gut acetogen, <i>Treponema primitia</i> . <i>Environmental Microbiology</i> , 2010, 12, 2245-2258.	3.8	30
14	Localizing transcripts to single cells suggests an important role of uncultured deltaproteobacteria in the termite gut hydrogen economy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 16163-16168.	7.1	29
15	Carbon substrate reorders relative growth of a bacterium using Mo ²⁺ , V ⁵⁺ , or Fe ³⁺ nitrogenase for nitrogen fixation. <i>Environmental Microbiology</i> , 2020, 22, 1397-1408.	3.8	25
16	Crochelins: Siderophores with an Unprecedented Iron-Chelating Moiety from the Nitrogen-Fixing Bacterium <i>Azotobacter chroococcum</i> . <i>Angewandte Chemie - International Edition</i> , 2018, 57, 536-541.	13.8	23
17	The role of oxygen in stimulating methane production in wetlands. <i>Global Change Biology</i> , 2021, 27, 5831-5847.	9.5	23
18	Fate of DTPA, EDTA, and EDDS in Hydroponic Media and Effects on Plant Mineral Nutrition. <i>Journal of Plant Nutrition</i> , 2007, 30, 1229-1246.	1.9	21

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19	Genetic, structural, and functional diversity of low and high-affinity siderophores in strains of nitrogen fixing <i>Azotobacter chroococcum</i> . <i>Metallomics</i> , 2019, 11, 201-212.	2.4	21
20	Critical inundation level for methane emissions from wetlands. <i>Environmental Research Letters</i> , 2021, 16, 044038.	5.2	17
21	Genes for selenium dependent and independent formate dehydrogenase in the gut microbial communities of three lower, wood-feeding termites and a wood-feeding roach. <i>Environmental Microbiology</i> , 2011, 13, 307-323.	3.8	13
22	Evidence for Cascades of Perturbation and Adaptation in the Metabolic Genes of Higher Termite Gut Symbionts. <i>MBio</i> , 2012, 3, .	4.1	13
23	The purple non-sulfur bacterium <i>Rhodopseudomonas palustris</i> produces novel petrobactin-related siderophores under aerobic and anaerobic conditions. <i>Environmental Microbiology</i> , 2018, 20, 1667-1676.	3.8	13
24	Crochelins: Siderophores with an Unprecedented Iron-Chelating Moiety from the Nitrogen-Fixing Bacterium <i>Azotobacter chroococcum</i> . <i>Angewandte Chemie</i> , 2018, 130, 545-550.	2.0	11
25	Effect of iron limitation on the isotopic composition of cellular and released fixed nitrogen in <i>Azotobacter vinelandii</i> . <i>Geochimica Et Cosmochimica Acta</i> , 2019, 244, 12-23.	3.9	9
26	Large Hydrogen Isotope Fractionation Distinguishes Nitrogenase-Derived Methane from Other Methane Sources. <i>Applied and Environmental Microbiology</i> , 2020, 86, .	3.1	8
27	Biohydrogen production relationship to biomass composition, growth, temperature and nitrogenase isoform in the anaerobic photoheterotrophic diazotroph <i>Rhodopseudomonas palustris</i> . <i>International Journal of Hydrogen Energy</i> , 2022, 47, 28399-28409.	7.1	3
28	Genome-Wide Effects of Selenium and Translational Uncoupling on Transcription in the Termite Gut Symbiont <i>Treponema primitia</i> . <i>MBio</i> , 2013, 4, e00869-13.	4.1	1
29	Ammonium sensitivity of biological nitrogen fixation by anaerobic diazotrophs in cultures and benthic marine sediments. <i>Journal of Geophysical Research C: Biogeosciences</i> , 0, .	3.0	1