

# Jennifer Glass

## List of Publications by Year in descending order

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Version: 2024-02-01

44  
papers

2,051  
citations

331670

21  
h-index

254184

43  
g-index

48  
all docs

48  
docs citations

48  
times ranked

3355  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Defining the <i>Sphagnum</i> Core Microbiome across the North American Continent Reveals a Central Role for Diazotrophic Methanotrophs in the Nitrogen and Carbon Cycles of Boreal Peatland Ecosystems. <i>MBio</i> , 2022, 13, . | 4.1  | 18        |
| 2  | Adaptation and Exaptation: From Small Molecules to Feathers. <i>Journal of Molecular Evolution</i> , 2022, 90, 166-175.   | 1.8  | 12        |
| 3  | Archaeal roots of intramembrane aspartyl protease siblings signal peptide peptidase and presenilin. <i>Proteins: Structure, Function and Bioinformatics</i> , 2021, 89, 232-241.  | 2.6  | 7         |
| 4  | Microbial diversity and activity in Southern California salterns and bitterns: analogues for remnant ocean worlds. <i>Environmental Microbiology</i> , 2021, 23, 3825-3839.   | 3.8  | 12        |
| 5  | Microbial helpers allow cyanobacteria to thrive in ferruginous waters. <i>Geobiology</i> , 2021, 19, 510-520.   | 2.4  | 3         |
| 6  | Microbial metabolism and adaptations in <i>Atribacteria</i> -dominated methane hydrate sediments. <i>Environmental Microbiology</i> , 2021, 23, 4646-4660.  | 3.8  | 20        |
| 7  | Water and Life: The Medium is the Message. <i>Journal of Molecular Evolution</i> , 2021, 89, 2-11.  | 1.8  | 29        |
| 8  | Phylogenetic and structural diversity of aromatically dense pili from environmental metagenomes. <i>Environmental Microbiology Reports</i> , 2020, 12, 49-57.   | 2.4  | 22        |
| 9  | Lanthanide rarity in natural waters: implications for microbial C1 metabolism. <i>FEMS Microbiology Letters</i> , 2020, 367, .  | 1.8  | 7         |
| 10 | Cutting in-line with iron: ribosomal function and non-oxidative RNA cleavage. <i>Nucleic Acids Research</i> , 2020, 48, 8663-8674.  | 14.5 | 18        |
| 11 | Supersized Ribosomal RNA Expansion Segments in Asgard Archaea. <i>Genome Biology and Evolution</i> , 2020, 12, 1694-1710.   | 2.5  | 24        |
| 12 | Mainly on the Plane: Deep Subsurface Bacterial Proteins Bind and Alter Clathrate Structure. <i>Crystal Growth and Design</i> , 2020, 20, 6290-6295.   | 3.0  | 5         |
| 13 | A blueprint for academic laboratories to produce SARS-CoV-2 quantitative RT-PCR test kits. <i>Journal of Biological Chemistry</i> , 2020, 295, 15438-15453.   | 3.4  | 31        |
| 14 | Simultaneous staining manganese oxides and microbial cells. <i>Limnology and Oceanography: Methods</i> , 2020, 18, 362-373.   | 2.0  | 2         |
| 15 | Hydrogenation reactions of carbon on Earth: Linking methane, margarine, and life. <i>American Mineralogist</i> , 2020, 105, 599-608.  | 1.9  | 9         |
| 16 | Novel insights into the taxonomic diversity and molecular mechanisms of bacterial Mn(III) reduction. <i>Environmental Microbiology Reports</i> , 2020, 12, 583-593.   | 2.4  | 4         |
| 17 | Experimental warming alters the community composition, diversity, and N <sub>2</sub> fixation activity of peat moss ( <i>Sphagnum fallax</i> ) microbiomes. <i>Global Change Biology</i> , 2019, 25, 2993-3004.                   | 9.5  | 89        |
| 18 | Species-Dependent Chromium Isotope Fractionation Across the Eastern Tropical North Pacific Oxygen Minimum Zone. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 2499-2514.  | 2.5  | 17        |

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|----|--|------|-----------|
| 19 | Effects of sterilization techniques on chemodenitrification and N <sub>2</sub> O production in tropical peat soil microcosms. <i>Biogeosciences</i> , 2019, 16, 4601-4612.   | 3.3  | 19        |
| 20 | Kinetics of nitrous oxide production from hydroxylamine oxidation by birnessite in seawater. <i>Marine Chemistry</i> , 2018, 202, 49-57.   | 2.3  | 19        |
| 21 | Trace Metal Imaging of Sulfate-Reducing Bacteria and Methanogenic Archaea at Single-Cell Resolution by Synchrotron X-Ray Fluorescence Imaging. <i>Geomicrobiology Journal</i> , 2018, 35, 81-89.   | 2.0  | 13        |
| 22 | The Sphagnum Project: enabling ecological and evolutionary insights through a genus-level sequencing project. <i>New Phytologist</i> , 2018, 217, 16-25.   | 7.3  | 54        |
| 23 | Multiple prebiotic metals mediate translation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 12164-12169.  | 7.1  | 48        |
| 24 | Nitrous oxide from chemodenitrification: A possible missing link in the Proterozoic greenhouse and the evolution of aerobic respiration. <i>Geobiology</i> , 2018, 16, 597-609.  | 2.4  | 39        |
| 25 | Whole-genome sequencing reveals that <i>Shewanella haliotis</i> Kim et al. 2007 can be considered a later heterotypic synonym of <i>Shewanella algae</i> Simidu et al. 1990. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2018, 68, 1356-1360. | 1.7  | 20        |
| 26 | Shifting microbial communities sustain multiyear iron reduction and methanogenesis in ferruginous sediment incubations. <i>Geobiology</i> , 2017, 15, 678-689.   | 2.4  | 24        |
| 27 | Microbial manganese(III) reduction fuelled by anaerobic acetate oxidation. <i>Environmental Microbiology</i> , 2017, 19, 3475-3486.  | 3.8  | 17        |
| 28 | Metabolic potential and <i>in situ</i> activity of marine Marinimicrobia bacteria in an anoxic water column. <i>Environmental Microbiology</i> , 2017, 19, 4392-4416.  | 3.8  | 40        |
| 29 | Molybdenum-Based Diazotrophy in a Sphagnum Peatland in Northern Minnesota. <i>Applied and Environmental Microbiology</i> , 2017, 83, .   | 3.1  | 46        |
| 30 | Metagenomic Binning Recovers a Transcriptionally Active Gammaproteobacterium Linking Methanotrophy to Partial Denitrification in an Anoxic Oxygen Minimum Zone. <i>Frontiers in Marine Science</i> , 2017, 4, .  | 2.5  | 44        |
| 31 | The <i>Sphagnum</i> microbiome: new insights from an ancient plant lineage. <i>New Phytologist</i> , 2016, 211, 57-64.   | 7.3  | 123       |
| 32 | SAR11 bacteria linked to ocean anoxia and nitrogen loss. <i>Nature</i> , 2016, 536, 179-183.   | 27.8 | 160       |
| 33 | The Astrobiology Primer v2.0. <i>Astrobiology</i> , 2016, 16, 561-653.   | 3.0  | 133       |
| 34 | Meta-omic signatures of microbial metal and nitrogen cycling in marine oxygen minimum zones. <i>Frontiers in Microbiology</i> , 2015, 6, 998.  | 3.5  | 58        |
| 35 | The importance of abiotic reactions for nitrous oxide production. <i>Biogeochemistry</i> , 2015, 126, 251-267.   | 3.5  | 163       |
| 36 | Microbes that Meddle with Metals. <i>Microbe Magazine</i> , 2015, 10, 197-202.   | 0.4  | 7         |

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|----|---|-----|-----------|
| 37 | Geochemical, metagenomic and metaproteomic insights into trace metal utilization by methane-oxidizing microbial consortia in sulphidic marine sediments. <i>Environmental Microbiology</i> , 2014, 16, 1592-1611. | 3.8 | 47        |
| 38 | Molybdenum geochemistry in a seasonally dysoxic Mo-limited lacustrine ecosystem. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 114, 204-219.   | 3.9 | 35        |
| 39 | Trace Metal Requirements for Microbial Enzymes Involved in the Production and Consumption of Methane and Nitrous Oxide. <i>Frontiers in Microbiology</i> , 2012, 3, 61.   | 3.5 | 291       |
| 40 | Molybdenum limitation of microbial nitrogen assimilation in aquatic ecosystems and pure cultures. <i>Frontiers in Microbiology</i> , 2012, 3, 331.  | 3.5 | 77        |
| 41 | The Geochemical Record of the Ancient Nitrogen Cycle, Nitrogen Isotopes, and Metal Cofactors. <i>Methods in Enzymology</i> , 2011, 486, 483-506.  | 1.0 | 51        |
| 42 | Molybdenum-nitrogen co-limitation in freshwater and coastal heterocystous cyanobacteria. <i>Limnology and Oceanography</i> , 2010, 55, 667-676.   | 3.1 | 36        |
| 43 | Coevolution of metal availability and nitrogen assimilation in cyanobacteria and algae. <i>Geobiology</i> , 2009, 7, 100-123.   | 2.4 | 141       |
| 44 | Submarine volcanic morphology of the western Galápagos based on EM300 bathymetry and MRI side-scan sonar. <i>Geochemistry, Geophysics, Geosystems</i> , 2007, 8, n/a-n/a.   | 2.5 | 12        |