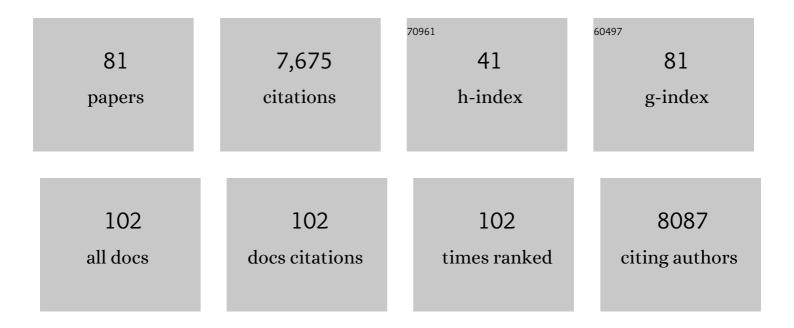
Craig W Herbold

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/8846321/publications.pdf Version: 2024-02-01



| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Complete nitrification by Nitrospira bacteria. Nature, 2015, 528, 504-509. | 13.7 | 1,878 |
| 2 | Expanded metabolic versatility of ubiquitous nitrite-oxidizing bacteria from the genus <i>Nitrospira</i> . Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 11371-11376. | 3.3 | 439 |
| 3 | AmoA-Targeted Polymerase Chain Reaction Primers for the Specific Detection and Quantification of Comammox Nitrospira in the Environment. Frontiers in Microbiology, 2017, 8, 1508. | 1.5 | 313 |
| 4 | Cyanate as an energy source for nitrifiers. Nature, 2015, 524, 105-108. | 13.7 | 231 |
| 5 | Microbial temperature sensitivity and biomass change explain soil carbon loss with warming. Nature Climate Change, 2018, 8, 885-889. | 8.1 | 230 |
| 6 | Genomic insights into the <i>Acidobacteria</i> reveal strategies for their success in terrestrial environments. Environmental Microbiology, 2018, 20, 1041-1063. | 1.8 | 228 |
| 7 | Soil multifunctionality is affected by the soil environment and by microbial community composition and diversity. Soil Biology and Biochemistry, 2019, 136, 107521. | 4.2 | 217 |
| 8 | Rational design of a microbial consortium of mucosal sugar utilizers reduces Clostridiodes difficile colonization. Nature Communications, 2020, 11, 5104. | 5.8 | 177 |
| 9 | Peatland <i>Acidobacteria</i> with a dissimilatory sulfur metabolism. ISME Journal, 2018, 12, 1729-1742. | 4.4 | 168 |
| 10 | A flexible and economical barcoding approach for highly multiplexed amplicon sequencing of diverse target genes. Frontiers in Microbiology, 2015, 6, 731. | 1.5 | 164 |
| 11 | Chemosynthetic symbionts of marine invertebrate animals are capable of nitrogen fixation. Nature Microbiology, 2017, 2, 16195. | 5.9 | 151 |
| 12 | Widespread soil bacterium that oxidizes atmospheric methane. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 8515-8524. | 3.3 | 149 |
| 13 | Groundtruthing Next-Gen Sequencing for Microbial Ecology–Biases and Errors in Community Structure Estimates from PCR Amplicon Pyrosequencing. PLoS ONE, 2012, 7, e44224. | 1.1 | 145 |
| 14 | Low yield and abiotic origin of N2O formed by the complete nitrifier Nitrospira inopinata. Nature Communications, 2019, 10, 1836. | 5.8 | 123 |
| 15 | Characterization of the First " <i>Candidatus</i> Nitrotoga―Isolate Reveals Metabolic Versatility and Separate Evolution of Widespread Nitrite-Oxidizing Bacteria. MBio, 2018, 9, . | 1.8 | 112 |
| 16 | Ecological memory of recurrent drought modifies soil processes via changes in soil microbial community. Nature Communications, 2021, 12, 5308. | 5.8 | 108 |
| 17 | Ammoniaâ€oxidising archaea living at low pH: Insights from comparative genomics. Environmental Microbiology, 2017, 19, 4939-4952. | 1.8 | 107 |
| 18 | Cyanate and urea are substrates for nitrification by Thaumarchaeota in the marine environment. Nature Microbiology, 2019, 4, 234-243. | 5.9 | 103 |

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Diversity analysis of sulfite―and sulfate―educing microorganisms by multiplex <i>dsrA</i> and <i>dsrB</i> amplicon sequencing using new primers and mock communityâ€optimized bioinformatics. Environmental Microbiology, 2016, 18, 2994-3009. | 1.8 | 98 |
| 20 | Bacillus simplex—A Little Known PGPB with Anti-Fungal Activity—Alters Pea Legume Root Architecture and Nodule Morphology When Coinoculated with Rhizobium leguminosarum bv. viciae. Agronomy, 2013, 3, 595-620. | 1.3 | 97 |
| 21 | Ammonia-oxidizing archaea possess a wide range of cellular ammonia affinities. ISME Journal, 2022, 16, 272-283. | 4.4 | 96 |
| 22 | Salt marsh submarine groundwater discharge as traced by radium isotopes. Marine Chemistry, 2003, 84, 113-121. | 0.9 | 89 |
| 23 | A fiber-deprived diet disturbs the fine-scale spatial architecture of the murine colon microbiome. Nature Communications, 2019, 10, 4366. | 5.8 | 82 |
| 24 | Evidence of global-scale aeolian dispersal and endemism in isolated geothermal microbial communities of Antarctica. Nature Communications, 2014, 5, 3875. | 5.8 | 76 |
| 25 | Cultivation and Genomic Analysis of "Candidatus Nitrosocaldus islandicus,―an Obligately Thermophilic, Ammonia-Oxidizing Thaumarchaeon from a Hot Spring Biofilm in Graendalur Valley, Iceland. Frontiers in Microbiology, 2018, 9, 193. | 1.5 | 76 |
| 26 | Decoding the genomic tree of life. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 6608-6613. | 3.3 | 70 |
| 27 | Evidence Excluding the Root of the Tree of Life from the Actinobacteria. Molecular Biology and Evolution, 2007, 25, 1-4. | 3.5 | 69 |
| 28 | Genome beginnings: rooting the tree of life. Philosophical Transactions of the Royal Society B: Biological Sciences, 2009, 364, 2177-2185. | 1.8 | 69 |
| 29 | Biotransformation of Two Pharmaceuticals by the Ammonia-Oxidizing Archaeon <i>Nitrososphaera gargensis</i> . Environmental Science & amp; Technology, 2016, 50, 4682-4692. | 4.6 | 68 |
| 30 | Single cell analyses reveal contrasting life strategies of the two main nitrifiers in the ocean. Nature Communications, 2020, 11, 767. | 5.8 | 67 |
| 31 | Activity and Metabolic Versatility of Complete Ammonia Oxidizers in Full-Scale Wastewater Treatment Systems. MBio, 2020, 11, . | 1.8 | 65 |
| 32 | Expansion of <i>Thaumarchaeota</i> habitat range is correlated with horizontal transfer of ATPase operons. ISME Journal, 2019, 13, 3067-3079. | 4.4 | 59 |
| 33 | An automated dyeâ€dilution based seepage meter for the timeâ€series measurement of submarine groundwater discharge. Limnology and Oceanography: Methods, 2003, 1, 16-28. | 1.0 | 54 |
| 34 | A Bioinformatics Guide to Plant Microbiome Analysis. Frontiers in Plant Science, 2019, 10, 1313. | 1.7 | 54 |
| 35 | Novel taxa of Acidobacteriota implicated in seafloor sulfur cycling. ISME Journal, 2021, 15, 3159-3180. | 4.4 | 54 |
| 36 | Exploring the upper pH limits of nitrite oxidation: diversity, ecophysiology, and adaptive traits of haloalkalitolerant <i>Nitrospira</i> . ISME Journal, 2020, 14, 2967-2979. | 4.4 | 52 |

CRAIG W HERBOLD

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Dissolved Iron Cycling in the Subterranean Estuary of a Coastal Bay: Waquoit Bay, Massachusetts. Biological Bulletin, 2002, 203, 255-256. | 0.7 | 51 |
| 38 | The cooling tower water microbiota: Seasonal dynamics and co-occurrence of bacterial and protist phylotypes. Water Research, 2019, 159, 464-479. | 5.3 | 51 |
| 39 | Evaluation of Primers Targeting the Diazotroph Functional Gene and Development of NifMAP – A Bioinformatics Pipeline for Analyzing nifH Amplicon Data. Frontiers in Microbiology, 2018, 9, 703. | 1.5 | 50 |
| 40 | Characterization of a thaumarchaeal symbiont that drives incomplete nitrification in the tropical sponge <i>Ianthella basta</i> . Environmental Microbiology, 2019, 21, 3831-3854. | 1.8 | 50 |
| 41 | An Economical and Flexible Dual Barcoding, Two-Step PCR Approach for Highly Multiplexed Amplicon Sequencing. Frontiers in Microbiology, 2021, 12, 669776. | 1.5 | 48 |
| 42 | Conversion of Rutin, a Prevalent Dietary Flavonol, by the Human Gut Microbiota. Frontiers in Microbiology, 2020, 11, 585428. | 1.5 | 47 |
| 43 | Evidence for a Gram-positive, Eubacterial Root of the Tree of Life. Molecular Biology and Evolution, 2007, 24, 1761-1768. | 3.5 | 46 |
| 44 | Local and regional influences over soil microbial metacommunities in the Transantarctic Mountains. Ecosphere, 2013, 4, 1-24. | 1.0 | 45 |
| 45 | Influence of soil properties on archaeal diversity and distribution in the McMurdo Dry Valleys, Antarctica. FEMS Microbiology Ecology, 2014, 89, 347-359. | 1.3 | 44 |
| 46 | Application of stableâ€isotope labelling techniques for the detection of active diazotrophs. Environmental Microbiology, 2018, 20, 44-61. | 1.8 | 44 |
| 47 | Composition and activity of nitrifier communities in soil are unresponsive to elevated temperature and CO2, but strongly affected by drought. ISME Journal, 2020, 14, 3038-3053. | 4.4 | 43 |
| 48 | Activities and metabolic versatility of distinct anammox bacteria in a full-scale wastewater treatment system. Water Research, 2021, 206, 117763. | 5.3 | 42 |
| 49 | Rooting the Tree of Life Using Nonubiquitous Genes. Molecular Biology and Evolution, 2007, 24, 130-136. | 3.5 | 39 |
| 50 | Survival strategies of ammonia-oxidizing archaea (AOA) in a full-scale WWTP treating mixed landfill leachate containing copper ions and operating at low-intensity of aeration. Water Research, 2021, 191, 116798. | 5.3 | 39 |
| 51 | Anaerobic bacterial degradation of protein and lipid macromolecules in subarctic marine sediment. ISME Journal, 2021, 15, 833-847. | 4.4 | 38 |
| 52 | Indications for enzymatic denitrification to N2O at low pH in an ammonia-oxidizing archaeon. ISME Journal, 2019, 13, 2633-2638. | 4.4 | 35 |
| 53 | Novel <i>Alcaligenes ammonioxydans</i> sp. nov. from wastewater treatment sludge oxidizes ammonia to <scp>N₂</scp> with a previously unknown pathway. Environmental Microbiology, 2021, 23, 6965-6980. | 1.8 | 33 |
| 54 | Evidence for a New Root of the Tree of Life. Systematic Biology, 2008, 57, 835-843. | 2.7 | 31 |

4

CRAIG W HERBOLD

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 55 | Membrane Lipid Composition of the Moderately Thermophilic Ammonia-Oxidizing Archaeon " <i>Candidatus</i> Nitrosotenuis uzonensis―at Different Growth Temperatures. Applied and Environmental Microbiology, 2019, 85, . | 1.4 | 31 |
| 56 | Sulfoquinovose is a select nutrient of prominent bacteria and a source of hydrogen sulfide in the human gut. ISME Journal, 2021, 15, 2779-2791. | 4.4 | 30 |
| 57 | Genomic insights into diverse bacterial taxa that degrade extracellular DNA in marine sediments. Nature Microbiology, 2021, 6, 885-898. | 5.9 | 29 |
| 58 | Benthic microbial communities of coastal terrestrial and ice shelf Antarctic meltwater ponds. Frontiers in Microbiology, 2015, 6, 485. | 1.5 | 28 |
| 59 | Cytochrome c unfolding on an anionic surface. Journal of Chromatography A, 1999, 863, 137-146. | 1.8 | 26 |
| 60 | Bottled aqua incognita: microbiota assembly and dissolved organic matter diversity in natural mineral waters. Microbiome, 2017, 5, 126. | 4.9 | 26 |
| 61 | Evidence that the Root of the Tree of Life Is Not within the Archaea. Molecular Biology and Evolution, 2006, 23, 1648-1651. | 3.5 | 25 |
| 62 | Distinct Microbial Assemblage Structure and Archaeal Diversity in Sediments of Arctic Thermokarst Lakes Differing in Methane Sources. Frontiers in Microbiology, 2018, 9, 1192. | 1.5 | 25 |
| 63 | An automated dye-dilution based seepage meter for the time-series measurement of submarine groundwater discharge. Limnology and Oceanography: Methods, 2011, 1, 16-28. | 1.0 | 24 |
| 64 | Genomic Insights Into the Acid Adaptation of Novel Methanotrophs Enriched From Acidic Forest Soils. Frontiers in Microbiology, 2018, 9, 1982. | 1.5 | 23 |
| 65 | Hair eruption initiates and commensal skin microbiota aggravate adverse events of anti-EGFR therapy. Science Translational Medicine, 2019, 11, . | 5.8 | 23 |
| 66 | Abiotic factors influence patterns of bacterial diversity and community composition in the Dry Valleys of Antarctica. FEMS Microbiology Ecology, 2020, 96, . | 1.3 | 23 |
| 67 | Acidobacteria are active and abundant members of diverse atmospheric H2-oxidizing communities detected in temperate soils. ISME Journal, 2021, 15, 363-376. | 4.4 | 23 |
| 68 | Genomic and kinetic analysis of novel Nitrospinae enriched by cell sorting. ISME Journal, 2021, 15, 732-745. | 4.4 | 23 |
| 69 | Microbial Ecology of Geothermal Habitats in Antarctica. , 2014, , 181-215. | | 22 |
| 70 | Phylogenetic Delineation of the Novel Phylum Armatimonadetes (Former Candidate Division OP10) and Definition of Two Novel Candidate Divisions. Applied and Environmental Microbiology, 2013, 79, 2484-2487. | 1.4 | 21 |
| 71 | Characterisation of bacterioplankton communities in the meltwater ponds of Bratina Island, Victoria Land, Antarctica. FEMS Microbiology Ecology, 2014, 89, 451-464. | 1.3 | 20 |
| 72 | Glacial Runoff Promotes Deep Burial of Sulfur Cycling-Associated Microorganisms in Marine Sediments. Frontiers in Microbiology, 2019, 10, 2558. | 1.5 | 16 |

CRAIG W HERBOLD

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 73 | Increased microbial expression of organic nitrogen cycling genes in long-term warmed grassland soils. ISME Communications, 2021, 1, . | 1.7 | 14 |
| 74 | Draft Genome Sequence of <i>Telmatospirillum siberiense</i> 26-4b1, an Acidotolerant Peatland Alphaproteobacterium Potentially Involved in Sulfur Cycling. Genome Announcements, 2018, 6, . | 0.8 | 13 |
| 75 | Draft Genome Sequence of <i>Desulfosporosinus</i> sp. Strain Sb-LF, Isolated from an Acidic Peatland in Germany. Microbiology Resource Announcements, 2019, 8, . | 0.3 | 8 |
| 76 | Diversity decoupled from sulfur isotope fractionation in a sulfateâ€reducing microbial community. Geobiology, 2019, 17, 660-675. | 1.1 | 7 |
| 77 | Temporal, regional and geochemical drivers of microbial community variation in the melt ponds of the Ross Sea region, Antarctica. Polar Biology, 2016, 39, 267-282. | 0.5 | 6 |
| 78 | Ecological Processes Shaping Microbiomes of Extremely Low Birthweight Infants. Frontiers in Microbiology, 2022, 13, 812136. | 1.5 | 5 |
| 79 | Insights into the metabolism of the high temperature microbial community of Tramway Ridge, Mount Erebus, Antarctica. Antarctic Science, 2016, 28, 241-249. | 0.5 | 4 |
| 80 | Gilbert's Syndrome and the Gut Microbiota – Insights From the Case-Control BILIHEALTH Study. Frontiers in Cellular and Infection Microbiology, 2021, 11, 701109. | 1.8 | 4 |
| 81 | Draft Genome Sequence of Desulfosporosinus fructosivorans Strain 63.6F T , Isolated from Marine Sediment in the Baltic Sea. Microbiology Resource Announcements, 2019, 8, . | 0.3 | 1 |