

Tullis C Onstott

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3783352/publications.pdf>

Version: 2024-02-01

128
papers

8,024
citations

53794

45
h-index

53230

85
g-index

138
all docs

138
docs citations

138
times ranked

7538
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Biogenic iron mineralization accompanying the dissimilatory reduction of hydrous ferric oxide by a groundwater bacterium. <i>Geochimica Et Cosmochimica Acta</i> , 1998, 62, 3239-3257. | 3.9 | 712 |
| 2 | Environmental Genomics Reveals a Single-Species Ecosystem Deep Within Earth. <i>Science</i> , 2008, 322, 275-278. | 12.6 | 474 |
| 3 | A genomic catalog of Earth's microbiomes. <i>Nature Biotechnology</i> , 2021, 39, 499-509. | 17.5 | 457 |
| 4 | Archaeal Diversity in Waters from Deep South African Gold Mines. <i>Applied and Environmental Microbiology</i> , 2001, 67, 5750-5760. | 3.1 | 387 |
| 5 | Unravelling abiogenic and biogenic sources of methane in the Earth's deep subsurface. <i>Chemical Geology</i> , 2006, 226, 328-339. | 3.3 | 241 |
| 6 | The yield and isotopic composition of radiolytic H ₂ , a potential energy source for the deep subsurface biosphere. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 893-903. | 3.9 | 197 |
| 7 | Direct measurements of methane emissions from abandoned oil and gas wells in Pennsylvania. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 18173-18177. | 7.1 | 185 |
| 8 | Mineral transformations associated with the microbial reduction of magnetite. <i>Chemical Geology</i> , 2000, 169, 299-318. | 3.3 | 180 |
| 9 | An oligotrophic deep-subsurface community dependent on syntrophy is dominated by sulfur-driven autotrophic denitrifiers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E7927-E7936. | 7.1 | 173 |
| 10 | Isotopic signatures of CH ₄ and higher hydrocarbon gases from Precambrian Shield sites: A model for abiogenic polymerization of hydrocarbons. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 4778-4795. | 3.9 | 172 |
| 11 | Microbes in thawing permafrost: the unknown variable in the climate change equation. <i>ISME Journal</i> , 2012, 6, 709-712. | 9.8 | 153 |
| 12 | Argon retentivity of hornblendes: A field experiment in a slowly cooled metamorphic terrane. <i>Geochimica Et Cosmochimica Acta</i> , 1987, 51, 2891-2903. | 3.9 | 148 |
| 13 | ³⁹ Ar recoil artifacts in chloritized biotite. <i>Geochimica Et Cosmochimica Acta</i> , 1989, 53, 2697-2711. | 3.9 | 147 |
| 14 | Rokubacteria: Genomic Giants among the Uncultured Bacterial Phyla. <i>Frontiers in Microbiology</i> , 2017, 8, 2264. | 3.5 | 142 |
| 15 | Recoil refinements: Implications for the ⁴⁰ Ar/ ³⁹ Ar dating technique. <i>Geochimica Et Cosmochimica Acta</i> , 1995, 59, 1821-1834. | 3.9 | 139 |
| 16 | The relative abundances of resolved I ₂ CH ₂ D ₂ and I ₃ CH ₃ D and mechanisms controlling isotopic bond ordering in abiotic and biotic methane gases. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 203, 235-264. | 3.9 | 125 |
| 17 | Hydrogeologic Controls on Episodic H ₂ Release from Precambrian Fractured Rocks—Energy for Deep Subsurface Life on Earth and Mars. <i>Astrobiology</i> , 2007, 7, 971-986. | 3.0 | 121 |
| 18 | Isolation of <i>Halobacterium salinarum</i> retrieved directly from halite brine inclusions. <i>Environmental Microbiology</i> , 2003, 5, 1094-1102. | 3.8 | 120 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | Microbes Deep Inside the Earth. <i>Scientific American</i> , 1996, 275, 68-73. | 1.0 | 118 |
| 20 | Dating ultra-deep mine waters with noble gases and ^{36}Cl , Witwatersrand Basin, South Africa. <i>Geochimica Et Cosmochimica Acta</i> , 2003, 67, 4597-4619. | 3.9 | 115 |
| 21 | Development of a Vital Fluorescent Staining Method for Monitoring Bacterial Transport in Subsurface Environments. <i>Applied and Environmental Microbiology</i> , 2000, 66, 4486-4496. | 3.1 | 113 |
| 22 | A metagenomic window into carbon metabolism at 3 km depth in Precambrian continental crust. <i>ISME Journal</i> , 2016, 10, 730-741. | 9.8 | 112 |
| 23 | Microbial hydrocarbon gases in the Witwatersrand Basin, South Africa: Implications for the deep biosphere. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 3239-3250. | 3.9 | 103 |
| 24 | $^{40}\text{Ar}/^{39}\text{Ar}$ dating of 1.0–1.1 Ga magnetizations from the São Francisco and Kalahari cratons: tectonic implications for Pan-African and Brasiliano mobile belts. <i>Earth and Planetary Science Letters</i> , 1990, 101, 349-366. | 4.4 | 100 |
| 25 | Variations in microbial carbon sources and cycling in the deep continental subsurface. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 173, 264-283. | 3.9 | 100 |
| 26 | Related assemblages of sulphate-reducing bacteria associated with ultradeep gold mines of South Africa and deep basalt aquifers of Washington State. <i>Environmental Microbiology</i> , 2003, 5, 267-277. | 3.8 | 96 |
| 27 | Microorganisms from deep, high temperature sandstones: constraints on microbial colonization. <i>FEMS Microbiology Reviews</i> , 1997, 20, 425-435. | 8.6 | 93 |
| 28 | The Martian subsurface as a potential window into the origin of life. <i>Nature Geoscience</i> , 2018, 11, 21-26. | 12.9 | 91 |
| 29 | Martian CH_4 : Sources, Flux, and Detection. <i>Astrobiology</i> , 2006, 6, 377-395. | 3.0 | 89 |
| 30 | Commercial DNA extraction kits impact observed microbial community composition in permafrost samples. <i>FEMS Microbiology Ecology</i> , 2014, 87, 217-230. | 2.7 | 89 |
| 31 | Phylogeny and phylogeography of functional genes shared among seven terrestrial subsurface metagenomes reveal N-cycling and microbial evolutionary relationships. <i>Frontiers in Microbiology</i> , 2014, 5, 531. | 3.5 | 87 |
| 32 | Theoretical prediction of collision efficiency between adhesion-deficient bacteria and sediment grain surface. <i>Colloids and Surfaces B: Biointerfaces</i> , 2002, 24, 229-245. | 5.0 | 76 |
| 33 | Rejuvenation of KAr systems for minerals in the Taiwan Mountain Belt. <i>Earth and Planetary Science Letters</i> , 1995, 131, 71-98. | 4.4 | 72 |
| 34 | Comparisons of the composition and biogeographic distribution of the bacterial communities occupying South African thermal springs with those inhabiting deep subsurface fracture water. <i>Frontiers in Microbiology</i> , 2014, 5, 679. | 3.5 | 72 |
| 35 | Reduced net methane emissions due to microbial methane oxidation in a warmer Arctic. <i>Nature Climate Change</i> , 2020, 10, 317-321. | 18.8 | 70 |
| 36 | Neon identifies two billion year old fluid component in Kaapvaal Craton. <i>Chemical Geology</i> , 2011, 283, 287-296. | 3.3 | 68 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Dating blueschist metamorphism: A combined $^{40}\text{Ar}/^{39}\text{Ar}$ and electron microprobe approach. <i>Geochimica Et Cosmochimica Acta</i> , 1986, 50, 2111-2117. | 3.9 | 67 |
| 38 | Paleo-Rock-Hosted Life on Earth and the Search on Mars: A Review and Strategy for Exploration. <i>Astrobiology</i> , 2019, 19, 1230-1262. | 3.0 | 62 |
| 39 | Ancestral Absence of Electron Transport Chains in Patescibacteria and DPANN. <i>Frontiers in Microbiology</i> , 2020, 11, 1848. | 3.5 | 62 |
| 40 | Laser microprobe measurement of chlorine and argon zonation in biotite. <i>Chemical Geology</i> , 1991, 90, 145-168. | 3.3 | 61 |
| 41 | Single cell genomics indicates horizontal gene transfer and viral infections in a deep subsurface Firmicutes population. <i>Frontiers in Microbiology</i> , 2015, 6, 349. | 3.5 | 61 |
| 42 | The Effect of the Instability of Muscovite During In Vacuo Heating on $^{40}\text{Ar}/^{39}\text{Ar}$ Step-Heating Spectra. <i>Geochimica Et Cosmochimica Acta</i> , 1998, 62, 123-141. | 3.9 | 57 |
| 43 | Argon release mechanisms of biotite in vacuo and the role of short-circuit diffusion and recoil. <i>Chemical Geology</i> , 2000, 165, 135-166. | 3.3 | 57 |
| 44 | Deep Subsurface Microbial Biomass and Community Structure in Witwatersrand Basin Mines. <i>Geomicrobiology Journal</i> , 2006, 23, 431-442. | 2.0 | 56 |
| 45 | Hydrogeochemistry of groundwaters in and below the base of thick permafrost at Lupin, Nunavut, Canada. <i>Journal of Hydrology</i> , 2009, 373, 80-95. | 5.4 | 56 |
| 46 | Paleomagnetism of Middle Proterozoic (1.01 to 1.08 Ga) mafic dykes in southeastern Bahia State São Francisco Craton, Brazil. <i>Earth and Planetary Science Letters</i> , 1990, 101, 332-348. | 4.4 | 55 |
| 47 | Paleomagnetism and $^{40}\text{Ar}/^{39}\text{Ar}$ ages of mafic dikes from Salvador (Brazil): new constraints on the São Francisco craton APW path between 1080 and 1010 Ma. <i>Precambrian Research</i> , 2004, 132, 55-77. | 2.7 | 45 |
| 48 | An assessment of $^{40}\text{Ar}/^{39}\text{Ar}$ dating for the whole-rock volcanic samples from the Luzon Arc near Taiwan. <i>Chemical Geology</i> , 1994, 114, 157-178. | 3.3 | 44 |
| 49 | Isolation and characterization of a <i>Geobacillus thermoleovorans</i> strain from an ultra-deep South African gold mine. <i>Systematic and Applied Microbiology</i> , 2007, 30, 152-164. | 2.8 | 43 |
| 50 | Time of emplacement and metamorphism of Late Precambrian mafic dykes associated with the Pan-African Gariep orogeny, Southern Africa: implications for the age of the Nama Group. <i>Journal of African Earth Sciences (and the Middle East)</i> , 1991, 13, 531-541. | 0.2 | 42 |
| 51 | Fitting straight lines and planes with an application to radiometric dating. <i>Earth and Planetary Science Letters</i> , 1990, 97, 1-17. | 4.4 | 40 |
| 52 | Simultaneous Transport of Two Bacterial Strains in Intact Cores from Oyster, Virginia: Biological Effects and Numerical Modeling. <i>Applied and Environmental Microbiology</i> , 2002, 68, 2120-2132. | 3.1 | 38 |
| 53 | Cretaceous dinosaur bone contains recent organic material and provides an environment conducive to microbial communities. <i>ELife</i> , 2019, 8, . | 6.0 | 38 |
| 54 | Sulfur Isotope Enrichment during Maintenance Metabolism in the Thermophilic Sulfate-Reducing Bacterium <i>Desulfotomaculum putei</i> . <i>Applied and Environmental Microbiology</i> , 2009, 75, 5621-5630. | 3.1 | 37 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | Application of $^{40}\text{Ar}/^{39}\text{Ar}$ laser-probe and step-heating techniques to the dating of diagenetic K-feldspar overgrowths. <i>Geochimica Et Cosmochimica Acta</i> , 1991, 55, 3777-3793. | 3.9 | 36 |
| 56 | The role of physical, chemical, and microbial heterogeneity on the field-scale transport and attachment of bacteria. <i>Water Resources Research</i> , 2003, 39, . | 4.2 | 35 |
| 57 | Survivability of <i>Psychrobacter cryohalolentis</i> K5 Under Simulated Martian Surface Conditions. <i>Astrobiology</i> , 2009, 9, 221-228. | 3.0 | 35 |
| 58 | Trends and future challenges in sampling the deep terrestrial biosphere. <i>Frontiers in Microbiology</i> , 2014, 5, 481. | 3.5 | 35 |
| 59 | Microbiome assembly in thawing permafrost and its feedbacks to climate. <i>Global Change Biology</i> , 2022, 28, 5007-5026. | 9.5 | 34 |
| 60 | The origin of NO_3^- and N_2 in deep subsurface fracture water of South Africa. <i>Chemical Geology</i> , 2012, 294-295, 51-62. | 3.3 | 33 |
| 61 | Dissolved organic matter compositions in 0.6–3.4 km deep fracture waters, Kaapvaal Craton, South Africa. <i>Organic Geochemistry</i> , 2018, 118, 116-131. | 1.8 | 33 |
| 62 | Precipitation of arsenic under sulfate reducing conditions and subsequent leaching under aerobic conditions. <i>Applied Geochemistry</i> , 2011, 26, 269-285. | 3.0 | 30 |
| 63 | In situ imaging of microorganisms in geologic material. <i>Journal of Microbiological Methods</i> , 1999, 37, 201-213. | 1.6 | 29 |
| 64 | Comparison of methods for monitoring bacterial transport in the subsurface. <i>Journal of Microbiological Methods</i> , 2001, 47, 219-231. | 1.6 | 29 |
| 65 | The role of low-temperature ^{18}O exchange in the isotopic evolution of deep subsurface fluids. <i>Chemical Geology</i> , 2021, 561, 120027. | 3.3 | 29 |
| 66 | Effects of simulated spring thaw of permafrost from mineral cryosol on CO_2 emissions and atmospheric CH_4 uptake. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2015, 120, 1764-1784. | 3.0 | 28 |
| 67 | Near infrared cavity ring-down spectroscopy for isotopic analyses of CH_4 on future Martian surface missions. <i>Planetary and Space Science</i> , 2015, 105, 117-122. | 1.7 | 28 |
| 68 | Earth-like Habitable Environments in the Subsurface of Mars. <i>Astrobiology</i> , 2021, 21, 741-756. | 3.0 | 27 |
| 69 | Laser microprobe analyses of fine-grained illite. <i>Geochimica Et Cosmochimica Acta</i> , 1997, 61, 3851-3861. | 3.9 | 25 |
| 70 | Predominance of Anaerobic, Spore-Forming Bacteria in Metabolically Active Microbial Communities from Ancient Siberian Permafrost. <i>Applied and Environmental Microbiology</i> , 2019, 85, . | 3.1 | 25 |
| 71 | Field-scale evaluation of CFDA/SE staining coupled with multiple detection methods for assessing the transport of bacteria in situ. <i>FEMS Microbiology Ecology</i> , 2001, 37, 55-66. | 2.7 | 24 |
| 72 | Paleomagnetic evidence for the evolution of Meso- to Neo-proterozoic glaciogenic rocks in central-eastern Brazil. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 1990, 80, 255-265. | 2.3 | 23 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 73 | Evolutionary stasis of a deep subsurface microbial lineage. ISME Journal, 2021, 15, 2830-2842. | 9.8 | 23 |
| 74 | South African crustal fracture fluids preserve paleometeoric water signatures for up to tens of millions of years. Chemical Geology, 2018, 493, 379-395. | 3.3 | 22 |
| 75 | The genome of a subterrestrial nematode reveals adaptations to heat. Nature Communications, 2019, 10, 5268. | 12.8 | 22 |
| 76 | Physical versus chemical effects on bacterial and bromide transport as determined from on site sediment column pulse experiments. Journal of Contaminant Hydrology, 2005, 76, 295-314. | 3.3 | 21 |
| 77 | Lessons Learned from Bacterial Transport Research at the South Oyster Site. Ground Water, 2011, 49, 745-763. | 1.3 | 20 |
| 78 | Metagenomes from Thawing Low-Soil-Organic-Carbon Mineral Cryosols and Permafrost of the Canadian High Arctic. Genome Announcements, 2014, 2, . | 0.8 | 20 |
| 79 | High Lake gossan deposit: An Arctic analogue for ancient Martian surficial processes?. Planetary and Space Science, 2009, 57, 1302-1311. | 1.7 | 18 |
| 80 | Hydrogeology, Chemical and Microbial Activity Measurement Through Deep Permafrost. Ground Water, 2011, 49, 348-364. | 1.3 | 18 |
| 81 | A scalable model for methane consumption in arctic mineral soils. Geophysical Research Letters, 2016, 43, 5143-5150. | 4.0 | 18 |
| 82 | Draft Genome Sequence of Uncultured Upland Soil Cluster <i>Gammaproteobacteria</i> Gives Molecular Insights into High-Affinity Methanotrophy. Genome Announcements, 2017, 5, . | 0.8 | 18 |
| 83 | Constraints on the thermal history of Taylorsville Basin, Virginia, U.S.A., from fluid-inclusion and fission-track analyses: implications for subsurface geomicrobiology experiments. Chemical Geology, 1996, 127, 297-311. | 3.3 | 17 |
| 84 | A tectogenetic origin for the deep subsurface microorganisms of Taylorsville Basin: thermal and fluid flow model constraints. FEMS Microbiology Reviews, 1997, 20, 391-397. | 8.6 | 17 |
| 85 | Genomic reconstruction of fossil and living microorganisms in ancient Siberian permafrost. Microbiome, 2021, 9, 110. | 11.1 | 17 |
| 86 | Impact of CO2 Injections on Deep Subsurface Microbial Ecosystems and Potential Ramifications for the Surface Biosphere. , 2005, , 1217-1249. | | 16 |
| 87 | Characterization of lattice strain induced by neutron irradiation. Physics and Chemistry of Minerals, 1995, 22, 399. | 0.8 | 15 |
| 88 | Utility of high performance liquid chromatography/electrospray/mass spectrometry of polar lipids in specifically Per-13C labeled Gram-negative bacteria DA001 as a tracer for acceleration of bioremediation in the subsurface. Journal of Microbiological Methods, 2001, 44, 271-281. | 1.6 | 15 |
| 89 | Challenges for Coring Deep Permafrost on Earth and Mars. Astrobiology, 2008, 8, 623-638. | 3.0 | 15 |
| 90 | Taxonomic and Functional Compositions Impacted by the Quality of Metatranscriptomic Assemblies. Frontiers in Microbiology, 2018, 9, 1235. | 3.5 | 15 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 91 | <i>Thermoanaerobacterium fractalcalcis</i> gen. nov. sp. nov., a Novel Fumarate-Fermenting Microorganism From a Deep Fractured Carbonate Aquifer of the US Great Basin. <i>Frontiers in Microbiology</i> , 2019, 10, 2224. | 3.5 | 15 |
| 92 | Underground production of ⁸¹ Kr detected in subsurface fluids. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 295, 65-79. | 3.9 | 15 |
| 93 | Denitrifiers, nitrogen-fixing bacteria and N ₂ O soil gas flux in high Arctic ice-wedge polygon cryosols. <i>FEMS Microbiology Ecology</i> , 2019, 95, . | 2.7 | 14 |
| 94 | <title>Potential for preservation of halobacteria and their macromolecular constituents in brine inclusions from bedded salt deposits</title>. , 1997, , . | | 13 |
| 95 | Eight Metagenome-Assembled Genomes Provide Evidence for Microbial Adaptation in 20,000- to 1,000,000-Year-Old Siberian Permafrost. <i>Applied and Environmental Microbiology</i> , 2021, 87, e0097221. | 3.1 | 13 |
| 96 | Geology, genesis, and metamorphic history of the Namew Lake Ni-Cu deposit, Manitoba. <i>Economic Geology</i> , 1996, 91, 1394-1413. | 3.8 | 12 |
| 97 | <title>Deep gold mines of South Africa: windows into the subsurface biosphere</title>. , 1997, 3111, 344. | | 12 |
| 98 | Development of radiographic and microscopic techniques for the characterization of bacterial transport in intact sediment cores from Oyster, Virginia. <i>Journal of Microbiological Methods</i> , 1999, 37, 139-154. | 1.6 | 12 |
| 99 | Breakthroughs in field-scale bacterial transport. <i>Eos</i> , 2001, 82, 417-417. | 0.1 | 12 |
| 100 | The influence of microstructures on the relationship between argon retentivity and chemical composition of hornblende. <i>Geochimica Et Cosmochimica Acta</i> , 1988, 52, 2167-2168. | 3.9 | 11 |
| 101 | Application of a Vital Fluorescent Staining Method for Simultaneous, Near-Real-Time Concentration Monitoring of Two Bacterial Strains in an Atlantic Coastal Plain Aquifer in Oyster, Virginia. <i>Applied and Environmental Microbiology</i> , 2004, 70, 1680-1687. | 3.1 | 11 |
| 102 | Draft Genome Sequence of <i>Candidatus Bathyarchaeota</i> Archaeon BE326-BA-RLH, an Uncultured Denitrifier and Putative Anaerobic Methanotroph from South Africa's Deep Continental Biosphere. <i>Microbiology Resource Announcements</i> , 2018, 7, . | 0.6 | 11 |
| 103 | Recent calcite spar in an aquifer waste plume: a possible example of contamination driven calcite precipitation. <i>Chemical Geology</i> , 2000, 169, 449-460. | 3.3 | 10 |
| 104 | Backscattered ³⁹ Ar loss in fine-grained minerals: Implications for ⁴⁰ Ar/ ³⁹ Ar geochronology of clay. <i>Geochimica Et Cosmochimica Acta</i> , 2000, 64, 3965-3974. | 3.9 | 10 |
| 105 | Deep subsurface mine stalactites trap endemic fissure fluid Archaea, Bacteria, and Nematoda possibly originating from ancient seas. <i>Frontiers in Microbiology</i> , 2015, 6, 833. | 3.5 | 10 |
| 106 | Valuing Life-Detection Missions. <i>Astrobiology</i> , 2018, 18, 834-840. | 3.0 | 10 |
| 107 | Comparative Metagenomics of the Active Layer and Permafrost from Low-Carbon Soil in the Canadian High Arctic. <i>Environmental Science & Technology</i> , 2021, 55, 12683-12693. | 10.0 | 10 |
| 108 | Genome-centric resolution of novel microbial lineages in an excavated <i>Centrosaurus</i> dinosaur fossil bone from the Late Cretaceous of North America. <i>Environmental Microbiomes</i> , 2020, 15, 8. | 5.0 | 8 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 109 | Metagenome-Assembled Genome of USCÎ± AHI, a Potential High-Affinity Methanotroph from Axel Heiberg Island, Canadian High Arctic. Microbiology Resource Announcements, 2019, 8, . | 0.6 | 8 |
| 110 | In situ oxidation of sulfide minerals supports widespread sulfate reducing bacteria in the deep subsurface of the Witwatersrand Basin (South Africa): Insights from multiple sulfur and oxygen isotopes. Earth and Planetary Science Letters, 2022, 577, 117247. | 4.4 | 8 |
| 111 | A Modular Injection System, Multilevel Sampler, and Manifold for Tracer Tests. Ground Water, 2003, 41, 816-827. | 1.3 | 7 |
| 112 | Aspartic acid racemization constrains long-term viability and longevity of endospores. FEMS Microbiology Ecology, 2019, 95, . | 2.7 | 7 |
| 113 | FISH-TAMB, a Fixation-Free mRNA Fluorescent Labeling Technique to Target Transcriptionally Active Members in Microbial Communities. Microbial Ecology, 2022, 84, 182-197. | 2.8 | 7 |
| 114 | COSPAR Sample Safety Assessment Framework (SSAF). Astrobiology, 2022, 22, S-186-S-216. | 3.0 | 7 |
| 115 | Aspartic acid racemization and repair in the survival and recovery of hyperthermophiles after prolonged starvation at high temperature. FEMS Microbiology Ecology, 2021, 97, . | 2.7 | 5 |
| 116 | A carbon free filter for collection of large volume samples of cellular biomass from oligotrophic waters. Journal of Microbiological Methods, 2012, 90, 145-151. | 1.6 | 4 |
| 117 | Hydrogen Isotopic Composition of Arctic and Atmospheric CH ₄ Determined by a Portable Near-Infrared Cavity Ring-Down Spectrometer with a Cryogenic Pre-Concentrator. Astrobiology, 2016, 16, 787-797. | 3.0 | 4 |
| 118 | Planetary sample sealing for caching. , 2009, , . | | 3 |
| 119 | “Follow the Water” Steve Squyres and the Mars Exploration Rovers. Journal of the Franklin Institute, 2011, 348, 446-452. | 3.4 | 3 |
| 120 | Transcriptional response to prolonged perchlorate exposure in the methanogen Methanosarcina barkeri and implications for Martian habitability. Scientific Reports, 2021, 11, 12336. | 3.3 | 3 |
| 121 | Formation of magnetite and iron-rich carbonates by thermophilic iron-reducing bacteria. , 1997, 3111, 61. | | 2 |
| 122 | The limited role of aquifer heterogeneity on metal reduction in an Atlantic coastal plain determined by push-pull tests. Applied Geochemistry, 2007, 22, 974-995. | 3.0 | 2 |
| 123 | LUCI: A facility at DUSEL for large-scale experimental study of geologic carbon sequestration. Energy Procedia, 2011, 4, 5050-5057. | 1.8 | 2 |
| 124 | Thaumarchaea Genome Sequences from a High Arctic Active Layer. Microbiology Resource Announcements, 2020, 9, . | 0.6 | 2 |
| 125 | Field-scale evaluation of CFDA/SE staining coupled with multiple detection methods for assessing the transport of bacteria in situ. FEMS Microbiology Ecology, 2001, 37, 55-66. | 2.7 | 1 |
| 126 | Alumina ceramic as a mounting medium for electron microprobe analysis and 40Ar/39Ar laser microprobe dating of mineral grains. Chemical Geology, 1993, 106, 443-452. | 3.3 | 0 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|----|-----------|
| 127 | Deep Subsurface Microbiology. , 2014, , 1-4. | | 0 |
| 128 | Deep Subsurface Microbiology. , 2015, , 618-621. | | 0 |