

Steve K Schmidt

List of Publications by Year in descending order

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183
papers

15,912
citations

17440
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18130
120
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188
all docs

188
docs citations

188
times ranked

13255
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Patterns and Processes of Microbial Community Assembly. Microbiology and Molecular Biology Reviews, 2013, 77, 342-356. | 6.6 | 1,325 |
| 2 | A temporal approach to linking aboveground and belowground ecology. Trends in Ecology and Evolution, 2005, 20, 634-641. | 8.7 | 706 |
| 3 | Seasonal Dynamics of Previously Unknown Fungal Lineages in Tundra Soils. Science, 2003, 301, 1359-1361. | 12.6 | 586 |
| 4 | Winter forest soil respiration controlled by climate and microbial community composition. Nature, 2006, 439, 711-714. | 27.8 | 468 |
| 5 | Phosphorus Limitation of Microbial Processes in Moist Tropical Forests: Evidence from Short-term Laboratory Incubations and Field Studies. Ecosystems, 2002, 5, 0680-0691. | 3.4 | 385 |
| 6 | Increases in soil respiration following labile carbon additions linked to rapid shifts in soil microbial community composition. Biogeochemistry, 2007, 82, 229-240. | 3.5 | 378 |
| 7 | Global patterns in the biogeography of bacterial taxa. Environmental Microbiology, 2011, 13, 135-144. | 3.8 | 362 |
| 8 | Microbial Community Succession in an Unvegetated, Recently Deglaciated Soil. Microbial Ecology, 2007, 53, 110-122. | 2.8 | 359 |
| 9 | Changes in assembly processes in soil bacterial communities following a wildfire disturbance. ISME Journal, 2013, 7, 1102-1111. | 9.8 | 354 |
| 10 | Seasonal Changes in an Alpine Soil Bacterial Community in the Colorado Rocky Mountains. Applied and Environmental Microbiology, 2004, 70, 2867-2879. | 3.1 | 318 |
| 11 | Inorganic nitrogen and microbial biomass dynamics before and during spring snowmelt. Biogeochemistry, 1998, 43, 1-15. | 3.5 | 312 |
| 12 | LINKS BETWEEN MICROBIAL POPULATION DYNAMICS AND NITROGEN AVAILABILITY IN AN ALPINE ECOSYSTEM. Ecology, 1999, 80, 1623-1631. | 3.2 | 310 |
| 13 | BIOGEOCHEMICAL CONSEQUENCES OF RAPID MICROBIAL TURNOVER AND SEASONAL SUCCESSION IN SOIL. Ecology, 2007, 88, 1379-1385. | 3.2 | 297 |
| 14 | Microbial activity under alpine snowpacks, Niwot Ridge, Colorado. Biogeochemistry, 1996, 32, 93. | 3.5 | 283 |
| 15 | Changes in Soil Microbial Community Structure and Function in an Alpine Dry Meadow Following Spring Snow Melt. Microbial Ecology, 2002, 43, 307-314. | 2.8 | 269 |
| 16 | Winter production of CO ₂ and N ₂ O from alpine tundra: environmental controls and relationship to inter-system C and N fluxes. Oecologia, 1997, 110, 403-413. | 2.0 | 253 |
| 17 | The effects of chronic nitrogen fertilization on alpine tundra soil microbial communities: implications for carbon and nitrogen cycling. Environmental Microbiology, 2008, 10, 3093-3105. | 3.8 | 252 |
| 18 | TOPOGRAPHIC PATTERNS OF ABOVE- AND BELOWGROUND PRODUCTION AND NITROGEN CYCLING IN ALPINE TUNDRA. Ecology, 1998, 79, 2253-2266. | 3.2 | 229 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Carbon availability and temperature control the post-snowmelt decline in alpine soil microbial biomass. <i>Soil Biology and Biochemistry</i> , 2000, 32, 441-448. | 8.8 | 227 |
| 20 | The earliest stages of ecosystem succession in high-elevation (5000 metres above sea level), recently deglaciated soils. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2008, 275, 2793-2802. | 2.6 | 222 |
| 21 | The effects of tree rhizodeposition on soil exoenzyme activity, dissolved organic carbon, and nutrient availability in a subalpine forest ecosystem. <i>Oecologia</i> , 2007, 154, 327-338. | 2.0 | 209 |
| 22 | Links between Microbial Population Dynamics and Nitrogen Availability in an Alpine Ecosystem. <i>Ecology</i> , 1999, 80, 1623. | 3.2 | 205 |
| 23 | Microbial growth under the snow: Implications for nutrient and allelochemical availability in temperate soils. <i>Plant and Soil</i> , 2004, 259, 1-7. | 3.7 | 202 |
| 24 | Models for the kinetics of biodegradation of organic compounds not supporting growth. <i>Applied and Environmental Microbiology</i> , 1985, 50, 323-331. | 3.1 | 198 |
| 25 | SEASONAL PARTITIONING OF NITROGEN BY PLANTS AND SOIL MICROORGANISMS IN AN ALPINE ECOSYSTEM. <i>Ecology</i> , 1999, 80, 1883-1891. | 3.2 | 191 |
| 26 | Evidence that chytrids dominate fungal communities in high-elevation soils. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 18315-18320. | 7.1 | 171 |
| 27 | Do bacterial and fungal communities assemble differently during primary succession?. <i>Molecular Ecology</i> , 2014, 23, 254-258. | 3.9 | 154 |
| 28 | Characterization of a novel <i>Pseudomonas</i> sp. that mineralizes high concentrations of pentachlorophenol. <i>Applied and Environmental Microbiology</i> , 1992, 58, 2879-2885. | 3.1 | 148 |
| 29 | Microbial diversity in alpine tundra wet meadow soil: novel <i>Chloroflexi</i> from a cold, water-saturated environment. <i>Environmental Microbiology</i> , 2006, 8, 1471-1486. | 3.8 | 147 |
| 30 | Decreases in average bacterial community rRNA operon copy number during succession. <i>ISME Journal</i> , 2016, 10, 1147-1156. | 9.8 | 146 |
| 31 | Biogeography and habitat modelling of high-alpine bacteria. <i>Nature Communications</i> , 2010, 1, 53. | 12.8 | 141 |
| 32 | Effects of dissolved organic carbon and second substrates on the biodegradation of organic compounds at low concentrations. <i>Applied and Environmental Microbiology</i> , 1985, 49, 822-827. | 3.1 | 141 |
| 33 | Fumarole-Supported Islands of Biodiversity within a Hyperarid, High-Elevation Landscape on Socompa Volcano, Puna de Atacama, Andes. <i>Applied and Environmental Microbiology</i> , 2009, 75, 735-747. | 3.1 | 133 |
| 34 | Global Distribution of <i>Polaromonas</i> Phylotypes - Evidence for a Highly Successful Dispersal Capacity. <i>PLoS ONE</i> , 2011, 6, e23742. | 2.5 | 125 |
| 35 | Variation in competitive abilities of plants and microbes for specific amino acids. <i>Biology and Fertility of Soils</i> , 1999, 29, 257-261. | 4.3 | 124 |
| 36 | Integron Diversity in Heavy-Metal-Contaminated Mine Tailings and Inferences about Integron Evolution. <i>Applied and Environmental Microbiology</i> , 2004, 70, 1160-1168. | 3.1 | 123 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 37 | The trade-off between growth rate and yield in microbial communities and the consequences for under-snow soil respiration in a high elevation coniferous forest. <i>Biogeochemistry</i> , 2009, 95, 23-35. | 3.5 | 115 |
| 38 | Gene Flow among Conspecific Populations of <i>Baetis</i> sp. (Ephemeroptera): Adult Flight and Larval Drift. <i>Journal of the North American Benthological Society</i> , 1995, 14, 147-157. | 3.1 | 113 |
| 39 | Mycorrhizal infection, phosphorus uptake, and phenology in <i>Ranunculus adoneus</i> : implications for the functioning of mycorrhizae in alpine systems. <i>Oecologia</i> , 1993, 94, 229-234. | 2.0 | 112 |
| 40 | Nitrogen Mineralization and Microbial Biomass Nitrogen Dynamics in Three Alpine Tundra Communities. <i>Soil Science Society of America Journal</i> , 1995, 59, 1036-1043. | 2.2 | 111 |
| 41 | Structure and function of alpine and arctic soil microbial communities. <i>Research in Microbiology</i> , 2005, 156, 775-784. | 2.1 | 110 |
| 42 | Kinetics of p-nitrophenol mineralization by a <i>Pseudomonas</i> sp.: effects of second substrates. <i>Applied and Environmental Microbiology</i> , 1987, 53, 2617-2623. | 3.1 | 107 |
| 43 | Nutrient Addition Dramatically Accelerates Microbial Community Succession. <i>PLoS ONE</i> , 2014, 9, e102609. | 2.5 | 106 |
| 44 | Fire severity shapes plant colonization effects on bacterial community structure, microbial biomass, and soil enzyme activity in secondary succession of a burned forest. <i>Soil Biology and Biochemistry</i> , 2015, 90, 161-168. | 8.8 | 97 |
| 45 | Widespread occurrence and phylogenetic placement of a soil clone group adds a prominent new branch to the fungal tree of life. <i>Molecular Phylogenetics and Evolution</i> , 2008, 46, 635-644. | 2.7 | 95 |
| 46 | Mycorrhizal and Dark-Septate Fungi in Plant Roots Above 4270 Meters Elevation in the Andes and Rocky Mountains. <i>Arctic, Antarctic, and Alpine Research</i> , 2008, 40, 576-583. | 1.1 | 93 |
| 47 | Soil rotifer communities are extremely diverse globally but spatially autocorrelated locally. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 4406-4410. | 7.1 | 90 |
| 48 | Molecular and Metabolic Characterization of Cold-Tolerant Alpine Soil <i>Pseudomonas</i> Sensu Stricto. <i>Applied and Environmental Microbiology</i> , 2004, 70, 483-489. | 3.1 | 87 |
| 49 | Phosphorus, not nitrogen, limits plants and microbial primary producers following glacial retreat. <i>Science Advances</i> , 2018, 4, eaaq0942. | 10.3 | 86 |
| 50 | Soil CO ₂ flux and photoautotrophic community composition in high-elevation, "barren" soil. <i>Environmental Microbiology</i> , 2009, 11, 674-686. | 3.8 | 83 |
| 51 | Plant diversity and density predict belowground diversity and function in an early successional alpine ecosystem. <i>Ecology</i> , 2018, 99, 1942-1952. | 3.2 | 83 |
| 52 | Degradation of juglone by soil bacteria. <i>Journal of Chemical Ecology</i> , 1988, 14, 1561-1571. | 1.8 | 81 |
| 53 | Microbial population dynamics in an extreme environment: controlling factors in talus soils at 3750 m in the Colorado Rocky Mountains. <i>Biogeochemistry</i> , 2004, 68, 297-311. | 3.5 | 81 |
| 54 | Supplemental Substrate Enhancement of 2,4-Dinitrophenol Mineralization by a Bacterial Consortium. <i>Applied and Environmental Microbiology</i> , 1990, 56, 1551-1558. | 3.1 | 81 |

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|----|--|-----|-----------|
| 55 | Atmospheric deposition as a source of carbon and nutrients to an alpine catchment of the Colorado Rocky Mountains. <i>Biogeosciences</i> , 2012, 9, 3337-3355. | 3.3 | 76 |
| 56 | Microbial responses to nitrogen additions in alpine tundra soil. <i>Soil Biology and Biochemistry</i> , 1996, 28, 751-755. | 8.8 | 75 |
| 57 | Microbial activity and diversity during extreme freeze-thaw cycles in periglacial soils, 5400m elevation, Cordillera Vilcanota, Peru. <i>Extremophiles</i> , 2009, 13, 807-816. | 2.3 | 71 |
| 58 | Functional shifts in unvegetated, perhumid, recently-deglaciated soils do not correlate with shifts in soil bacterial community composition. <i>Journal of Microbiology</i> , 2009, 47, 673-681. | 2.8 | 70 |
| 59 | Fungal communities at the edge: Ecological lessons from high alpine fungi. <i>Fungal Ecology</i> , 2012, 5, 443-452. | 1.6 | 70 |
| 60 | Nitrogen Uptake during Snowmelt by the Snow Buttercup, <i>Ranunculus adoneus</i> . <i>Arctic and Alpine Research</i> , 1998, 30, 121. | 1.3 | 67 |
| 61 | An empirical model of amino acid transformations in an alpine soil. <i>Soil Biology and Biochemistry</i> , 2001, 33, 189-198. | 8.8 | 67 |
| 62 | The potential for microbial life in the highest (>6000m.a.s.l.) mineral soils of the Atacama region. <i>Journal of Geophysical Research</i> , 2012, 117, . | 3.3 | 67 |
| 63 | Phylogeography of microbial phototrophs in the dry valleys of the high Himalayas and Antarctica. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2011, 278, 702-708. | 2.6 | 66 |
| 64 | Diversity patterns of microbial eukaryotes mirror those of bacteria in Antarctic cryoconite holes. <i>FEMS Microbiology Ecology</i> , 2018, 94, . | 2.7 | 65 |
| 65 | SOIL MICROBIAL DYNAMICS AND BIOGEOCHEMISTRY IN TROPICAL FORESTS AND PASTURES, SOUTHWESTERN COSTA RICA. , 2003, 13, 314-326. | | 64 |
| 66 | Metagenomic evidence for metabolism of trace atmospheric gases by high-elevation desert Actinobacteria. <i>Frontiers in Microbiology</i> , 2014, 5, 698. | 3.5 | 62 |
| 67 | Predicting threshold concentrations of organic substrates for bacterial growth. <i>Journal of Theoretical Biology</i> , 1985, 114, 1-8. | 1.7 | 58 |
| 68 | Soil Microbial Dynamics in Costa Rica: Seasonal and Biogeochemical Constraints. <i>Biotropica</i> , 2004, 36, 184-195. | 1.6 | 58 |
| 69 | Nutrient limitation of soil microbial activity during the earliest stages of ecosystem development. <i>Oecologia</i> , 2017, 185, 513-524. | 2.0 | 58 |
| 70 | Fluxes of nitrous oxide and methane from nitrogen-amended soils in a Colorado alpine ecosystem. <i>Biogeochemistry</i> , 1994, 27, 23. | 3.5 | 57 |
| 71 | Interspecific Plant Interactions Reflected in Soil Bacterial Community Structure and Nitrogen Cycling in Primary Succession. <i>Frontiers in Microbiology</i> , 2018, 9, 128. | 3.5 | 57 |
| 72 | High levels of microbial biomass and activity in unvegetated tropical and temperate alpine soils. <i>Soil Biology and Biochemistry</i> , 2008, 40, 2605-2610. | 8.8 | 56 |

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|----|---|-----|-----------|
| 73 | Patterns of root colonization by arbuscular mycorrhizal fungi and dark septate endophytes across a mostly-unvegetated, high-elevation landscape. <i>Fungal Ecology</i> , 2018, 36, 63-74. | 1.6 | 55 |
| 74 | Exponential growth of "snow molds" at sub-zero temperatures: an explanation for high beneath-snow respiration rates and Q 10 values. <i>Biogeochemistry</i> , 2009, 95, 13-21. | 3.5 | 54 |
| 75 | Co-Occurrence Patterns of Plants and Soil Bacteria in the High-Alpine Subnival Zone Track Environmental Harshness. <i>Frontiers in Microbiology</i> , 2012, 3, 347. | 3.5 | 54 |
| 76 | Biogeography and Landscape-Scale Diversity of the Dominant Crenarchaeota of Soil. <i>Microbial Ecology</i> , 2006, 52, 480-490. | 2.8 | 53 |
| 77 | Nutrient limitation of microbial phototrophs on a debris-covered glacier. <i>Soil Biology and Biochemistry</i> , 2016, 95, 156-163. | 8.8 | 53 |
| 78 | Insights and inferences about integron evolution from genomic data. <i>BMC Genomics</i> , 2008, 9, 261. | 2.8 | 51 |
| 79 | Symbiotic N ₂ -fixation in alpine tundra: ecosystem input and variation in fixation rates among communities. <i>Oecologia</i> , 1996, 108, 345-350. | 2.0 | 50 |
| 80 | Impacts of chronic nitrogen additions vary seasonally and by microbial functional group in tundra soils. <i>Biogeochemistry</i> , 2004, 69, 1-17. | 3.5 | 49 |
| 81 | Phylogeny and Ecophysiology of Opportunistic "Snow Molds" from a Subalpine Forest Ecosystem. <i>Microbial Ecology</i> , 2008, 56, 681-687. | 2.8 | 47 |
| 82 | Improved procedure for obtaining statistically valid parameter estimates from soil respiration data. <i>Soil Biology and Biochemistry</i> , 1995, 27, 1-7. | 8.8 | 46 |
| 83 | Estimating the biomass of microbial functional groups using rates of growth-related soil respiration. <i>Soil Biology and Biochemistry</i> , 1996, 28, 1569-1577. | 8.8 | 45 |
| 84 | Phylogeny and biogeography of an uncultured clade of snow chytrids. <i>Environmental Microbiology</i> , 2013, 15, 2672-2680. | 3.8 | 45 |
| 85 | Biogeochemical Stoichiometry Reveals P and N Limitation Across the Post-glacial Landscape of Denali National Park, Alaska. <i>Ecosystems</i> , 2016, 19, 1164-1177. | 3.4 | 45 |
| 86 | <i>Naganishia</i> in high places: functioning populations or dormant cells from the atmosphere?. <i>Mycology</i> , 2017, 8, 153-163. | 4.4 | 45 |
| 87 | Soil ecological interactions: comparisons between tropical and subalpine forests. <i>Oecologia</i> , 2001, 128, 549-556. | 2.0 | 44 |
| 88 | Biogeochemical drivers of microbial community convergence across actively retreating glaciers. <i>Soil Biology and Biochemistry</i> , 2016, 101, 74-84. | 8.8 | 42 |
| 89 | Kinetics of biodegradation of mixtures of substrates in soil. <i>Soil Biology and Biochemistry</i> , 1989, 21, 703-708. | 8.8 | 41 |
| 90 | Landscape patterns of CH ₄ fluxes in an alpine tundra ecosystem. <i>Biogeochemistry</i> , 1999, 45, 243-264. | 3.5 | 41 |

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|-----|--|-----|-----------|
| 91 | Life at extreme elevations on Atacama volcanoes: the closest thing to Mars on Earth?. Antonie Van Leeuwenhoek, 2018, 111, 1389-1401. | 1.7 | 41 |
| 92 | Spatio-temporal dynamics of soil bacterial communities as a function of Amazon forest phenology. Scientific Reports, 2018, 8, 4382. | 3.3 | 40 |
| 93 | Methane flux in subalpine wetland and unsaturated soils in the southern Rocky Mountains. Global Biogeochemical Cycles, 1999, 13, 101-113. | 4.9 | 39 |
| 94 | Rapid Shifts in Soil Nutrients and Decomposition Enzyme Activity in Early Succession Following Forest Fire. Forests, 2017, 8, 347. | 2.1 | 39 |
| 95 | INTERSPECIFIC PLANT ASSOCIATION EFFECTS ON VESICULAR-ARBUSCULAR MYCORRHIZA OCCURRENCE IN ATRIPLEX CONFERTIFOLIA. New Phytologist, 1983, 95, 241-246. | 7.3 | 38 |
| 96 | Mycorrhizal Fungi on the Galapagos Islands. Biotropica, 1986, 18, 236. | 1.6 | 38 |
| 97 | THE RATE AND PATTERN OF CLADOGENESIS IN MICROBES. Evolution; International Journal of Organic Evolution, 2004, 58, 946-955. | 2.3 | 38 |
| 98 | Isolation and phylogenetic identification of a dark-septate fungus associated with the alpine plant Ranunculus adoneus. New Phytologist, 2001, 150, 747-755. | 7.3 | 37 |
| 99 | Effect of glucose on 2,4-dinitrophenol degradation kinetics in sequencing batch reactors. Water Environment Research, 1993, 65, 73-81. | 2.7 | 36 |
| 100 | Use of a pentachlorophenol degrading bacterium to bioremediate highly contaminated soil. Applied Biochemistry and Biotechnology, 1995, 54, 271-275. | 2.9 | 36 |
| 101 | Ectomycorrhizal transfer of amino acid-nitrogen to the alpine sedge Kobresia myosuroides. New Phytologist, 1999, 142, 163-167. | 7.3 | 36 |
| 102 | Title is missing!. Journal of Chemical Ecology, 2000, 26, 2049-2057. | 1.8 | 36 |
| 103 | Can zoospore true fungi grow or survive in extreme or stressful environments?. Extremophiles, 2010, 14, 417-425. | 2.3 | 36 |
| 104 | Phylogeny of ulotrichalean algae from extreme high-altitude and high-latitude ecosystems. Polar Biology, 2015, 38, 689-697. | 1.2 | 36 |
| 105 | Comparison of Microbial Communities in the Sediments and Water Columns of Frozen Cryoconite Holes in the McMurdo Dry Valleys, Antarctica. Frontiers in Microbiology, 2019, 10, 65. | 3.5 | 36 |
| 106 | A hole in the nematosphere: tardigrades and rotifers dominate the cryoconite hole environment, whereas nematodes are missing. Journal of Zoology, 2021, 313, 18-36. | 1.7 | 36 |
| 107 | Fungal and bacterial responses to phenolic compounds and amino acids in high altitude barren soils. Soil Biology and Biochemistry, 2002, 34, 989-995. | 8.8 | 35 |
| 108 | Acetate stimulates atmospheric CH ₄ oxidation by an alpine tundra soil. Soil Biology and Biochemistry, 1999, 31, 1649-1655. | 8.8 | 34 |

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|-----|--|-----|-----------|
| 109 | Coexisting Bacterial Populations Responsible for Multiphasic Mineralization Kinetics in Soil. <i>Applied and Environmental Microbiology</i> , 1990, 56, 2692-2697. | 3.1 | 33 |
| 110 | Plant colonization of moss-dominated soils in the alpine: Microbial and biogeochemical implications. <i>Soil Biology and Biochemistry</i> , 2017, 111, 135-142. | 8.8 | 32 |
| 111 | Single-Stranded DNA Viruses in Antarctic Cryoconite Holes. <i>Viruses</i> , 2019, 11, 1022. | 3.3 | 31 |
| 112 | Dynamics of microbial populations in soil: Indigenous microorganisms degrading 2,4-dinitrophenol. <i>Microbial Ecology</i> , 1989, 18, 285-296. | 2.8 | 29 |
| 113 | Microbial Biomass Levels in Barren and Vegetated High Altitude Talus Soils. <i>Soil Science Society of America Journal</i> , 2001, 65, 111-117. | 2.2 | 29 |
| 114 | Quantitative methods for the analysis of zoospore fungi. <i>Journal of Microbiological Methods</i> , 2012, 89, 22-32. | 1.6 | 29 |
| 115 | Island Biogeography of Cryoconite Hole Bacteria in Antarctica's Taylor Valley and Around the World. <i>Frontiers in Ecology and Evolution</i> , 2018, 6, . | 2.2 | 29 |
| 116 | Cryoconite " From minerals and organic matter to bioengineered sediments on glacier's surfaces. <i>Science of the Total Environment</i> , 2022, 807, 150874. | 8.0 | 29 |
| 117 | Microbial Communities of High-Elevation Fumaroles, Penitentes, and Dry Tephra "Soils" of the Puna de Atacama Volcanic Zone. <i>Microbial Ecology</i> , 2018, 76, 340-351. | 2.8 | 27 |
| 118 | Estimating phosphorus availability for microbial growth in an emerging landscape. <i>Geoderma</i> , 2011, 163, 135-140. | 5.1 | 26 |
| 119 | Environmental DNA sequencing primers for eutardigrades and bdelloid rotifers. <i>BMC Ecology</i> , 2009, 9, 25. | 3.0 | 25 |
| 120 | Incorporating biotic factors in species distribution modeling: are interactions with soil microbes important?. <i>Ecography</i> , 2016, 39, 970-980. | 4.5 | 25 |
| 121 | Rapid temporal changes in root colonization by arbuscular mycorrhizal fungi and fine root endophytes, not dark septate endophytes, track plant activity and environment in an alpine ecosystem. <i>Mycorrhiza</i> , 2018, 28, 717-726. | 2.8 | 24 |
| 122 | Wetting stimulates atmospheric CH ₄ oxidation by alpine soil. <i>FEMS Microbiology Ecology</i> , 1998, 25, 349-353. | 2.7 | 23 |
| 123 | Ecological implications of the destruction of juglone (5-hydroxy-l,4-naphthoquinone) by soil bacteria. <i>Journal of Chemical Ecology</i> , 1990, 16, 3547-3549. | 1.8 | 22 |
| 124 | Landscape patterns of CH ₄ fluxes in an alpine tundra ecosystem. <i>Biogeochemistry</i> , 1999, 45, 243-264. | 3.5 | 22 |
| 125 | The disappearing periglacial ecosystem atop Mt. Kilimanjaro supports both cosmopolitan and endemic microbial communities. <i>Scientific Reports</i> , 2019, 9, 10676. | 3.3 | 21 |
| 126 | A phylogenetic model for the recruitment of species into microbial communities and application to studies of the human microbiome. <i>ISME Journal</i> , 2020, 14, 1359-1368. | 9.8 | 21 |

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|-----|---|-----|-----------|
| 127 | Effects of natural and experimental drought on soil fungi and biogeochemistry in an Amazon rain forest. <i>Communications Earth & Environment</i> , 2021, 2, . | 6.8 | 21 |
| 128 | A simple method for determining limiting nutrients for photosynthetic crusts. <i>Plant Ecology and Diversity</i> , 2012, 5, 513-519. | 2.4 | 20 |
| 129 | Spatial autocorrelation of microbial communities atop a debris-covered glacier is evidence of a supraglacial chronosequence. <i>FEMS Microbiology Ecology</i> , 2017, 93, . | 2.7 | 19 |
| 130 | Endogenous Methanogenesis Stimulates Oxidation of Atmospheric CH ₄ in Alpine Tundra Soil. <i>Microbial Ecology</i> , 2002, 43, 408-415. | 2.8 | 18 |
| 131 | Disruption of narH , narJ , and moaE Inhibits Heterotrophic Nitrification in Pseudomonas Strain M19. <i>Applied and Environmental Microbiology</i> , 2002, 68, 6462-6465. | 3.1 | 17 |
| 132 | Growth of high-elevation <i>Cryptococcus</i> sp. during extreme freeze-thaw cycles. <i>Extremophiles</i> , 2016, 20, 579-588. | 2.3 | 17 |
| 133 | Multiple, Compounding Disturbances in a Forest Ecosystem: Fire Increases Susceptibility of Soil Edaphic Properties, Bacterial Community Structure, and Function to Change with Extreme Precipitation Event. <i>Soil Systems</i> , 2019, 3, 40. | 2.6 | 17 |
| 134 | Nieves penitentes are a new habitat for snow algae in one of the most extreme high-elevation environments on Earth. <i>Arctic, Antarctic, and Alpine Research</i> , 2019, 51, 190-200. | 1.1 | 16 |
| 135 | A substrate-induced growth-response method for estimating the biomass of microbial functional groups in soil and aquatic systems. <i>FEMS Microbiology Ecology</i> , 1992, 10, 197-206. | 2.7 | 15 |
| 136 | Plant-microbe interactions at multiple scales across a high-elevation landscape. <i>Plant Ecology and Diversity</i> , 2015, 8, 703-712. | 2.4 | 15 |
| 137 | Of mammals and bacteria in a rainforest: Temporal dynamics of soil bacteria in response to simulated N pulse from mammalian urine. <i>Functional Ecology</i> , 2018, 32, 773-784. | 3.6 | 15 |
| 138 | Cyanobacteria in early soil development of deglaciated forefields: Dominance of non-heterocytous filamentous cyanobacteria and phosphorus limitation of N-fixing Nostocales. <i>Soil Biology and Biochemistry</i> , 2021, 154, 108127. | 8.8 | 15 |
| 139 | Multiple trophic patterns of primary succession following retreat of a high-elevation glacier. <i>Ecosphere</i> , 2021, 12, e03400. | 2.2 | 15 |
| 140 | Colonization of contaminated soil by an introduced bacterium: effects of initial pentachlorophenol levels on the survival of <i>Sphingomonas chlorophenolica</i> strain RA2. <i>Journal of Industrial Microbiology and Biotechnology</i> , 1999, 23, 326-331. | 3.0 | 14 |
| 141 | Growth of cyanobacterial soil crusts during diurnal freeze-thaw cycles. <i>Journal of Microbiology</i> , 2019, 57, 243-251. | 2.8 | 14 |
| 142 | Soil Microbial Networks Shift Across a High-Elevation Successional Gradient. <i>Frontiers in Microbiology</i> , 2019, 10, 2887. | 3.5 | 14 |
| 143 | A substrate-induced growth-response method for estimating the biomass of microbial functional groups in soil and aquatic systems. <i>FEMS Microbiology Letters</i> , 1992, 101, 197-206. | 1.8 | 13 |
| 144 | Experimental cryoconite holes as mesocosms for studying community ecology. <i>Polar Biology</i> , 2019, 42, 1973-1984. | 1.2 | 13 |

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|-----|---|-----|-----------|
| 145 | Growing season length and soil microbes influence the performance of a generalist bunchgrass beyond its current range. <i>Ecology</i> , 2020, 101, e03095. | 3.2 | 13 |
| 146 | EFFECT OF THE NON-MYCORRHIZAL PIONEER PLANT <i>SALSOLA KALI</i> L. (CHENOPODIACEAE) ON VESICULAR-ARBUSCULAR MYCORRHIZAL (VAM) FUNGI. <i>American Journal of Botany</i> , 1984, 71, 1035-1039. | 1.7 | 12 |
| 147 | Winter production of CO. <i>Oecologia</i> , 1997, 110, 403. | 2.0 | 12 |
| 148 | Growth of phenol-mineralizing microorganisms in fresh water. <i>Applied and Environmental Microbiology</i> , 1985, 49, 11-14. | 3.1 | 12 |
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