

Steve K Schmidt

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

183
papers

12,190
citations

57
h-index

107
g-index

188
ext. papers

14,062
ext. citations

5.3
avg, IF

6.27
L-index

#	Paper	IF	Citations
183	Microbial biogeochemistry and phosphorus limitation in cryoconite holes on glaciers across the Taylor Valley, McMurdo Dry Valleys, Antarctica. <i>Biogeochemistry</i> , 2022 , 158, 313-326	3.8	0
182	Crossing Treeline: Bacterioplankton Communities of Alpine and Subalpine Rocky Mountain Lakes.. <i>Frontiers in Microbiology</i> , 2021 , 12, 533121	5.7	0
181	Do plant-soil interactions influence how the microbial community responds to environmental change?. <i>Ecology</i> , 2021 , e03554	4.6	0
180	Vicuña dung gardens at the edge of the cryosphere: Reply. <i>Ecology</i> , 2021 , e03579	4.6	
179	Cryoconite - From minerals and organic matter to bioengineered sediments on glacier's surfaces. <i>Science of the Total Environment</i> , 2021 , 807, 150874	10.2	5
178	Effects of natural and experimental drought on soil fungi and biogeochemistry in an Amazon rain forest. <i>Communications Earth & Environment</i> , 2021 , 2,	6.1	6
177	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	7.5	3
176	Multiple-trophic patterns of primary succession following retreat of a high-elevation glacier. <i>Ecosphere</i> , 2021 , 12, e03400	3.1	2
175	Insights into an undescribed high-elevation lake (6,170 m a.s.l.) on Volcān Lullullaillaco: A physical and microbiological view. <i>Aquatic Conservation: Marine and Freshwater Ecosystems</i> , 2021 , 31, 2293-2299	2.6	
174	Gullies and Moraines Are Islands of Biodiversity in an Arid, Mountain Landscape, Asgard Range, Antarctica. <i>Frontiers in Microbiology</i> , 2021 , 12, 654135	5.7	1
173	Vicuña dung gardens at the edge of the cryosphere. <i>Ecology</i> , 2021 , 102, e03228	4.6	1
172	A hole in the nematosphere: tardigrades and rotifers dominate the cryoconite hole environment, whereas nematodes are missing. <i>Journal of Zoology</i> , 2021 , 313, 18-36	2	19
171	Nematode community diversity and function across an alpine landscape undergoing plant colonization of previously unvegetated soils. <i>Soil Biology and Biochemistry</i> , 2021 , 161, 108380	7.5	3
170	Growing-season length and soil microbes influence the performance of a generalist bunchgrass beyond its current range. <i>Ecology</i> , 2020 , 101, e03095	4.6	8
169	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	11.9	12
168	Of Microbes and Mummies: Tales of Microbial Activity and Inactivity at 6000 m a.s.l. 2020 , 97-112		
167	The presence of a foreign microbial community promotes plant growth and reduces filtering of root fungi in the arctic-alpine plant <i>Silene acaulis</i> . <i>Plant Ecology and Diversity</i> , 2020 , 13, 377-390	2.2	0

166	Evidence for phosphorus limitation in high-elevation unvegetated soils, Niwot Ridge, Colorado. <i>Biogeochemistry</i> , 2020 , 147, 1-13	3.8	5
165	Microbial Species-Area Relationships in Antarctic Cryoconite Holes Depend on Productivity. <i>Microorganisms</i> , 2020 , 8,	4.9	3
164	Limited Response of Indigenous Microbes to Water and Nutrient Pulses in High-Elevation Atacama Soils: Implications for the Cold-Dry Limits of Life on Earth. <i>Microorganisms</i> , 2020 , 8,	4.9	1
163	Litter-driven feedbacks influence plant colonization of a high elevation early successional ecosystem. <i>Plant and Soil</i> , 2019 , 444, 71-85	4.2	3
162	Experimental cryoconite holes as mesocosms for studying community ecology. <i>Polar Biology</i> , 2019 , 42, 1973-1984	2	8
161	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	3.5	10
160	Comparison of Microbial Communities in the Sediments and Water Columns of Frozen Cryoconite Holes in the McMurdo Dry Valleys, Antarctica. <i>Frontiers in Microbiology</i> , 2019 , 10, 65	5.7	20
159	Growth of cyanobacterial soil crusts during diurnal freeze-thaw cycles. <i>Journal of Microbiology</i> , 2019 , 57, 243-251	3	9
158	Structure of bacterial and eukaryote communities reflect in situ controls on community assembly in a high-alpine lake. <i>Journal of Microbiology</i> , 2019 , 57, 852-864	3	5
157	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	1.8	10
156	The disappearing periglacial ecosystem atop Mt. Kilimanjaro supports both cosmopolitan and endemic microbial communities. <i>Scientific Reports</i> , 2019 , 9, 10676	4.9	11
155	Single-Stranded DNA Viruses in Antarctic Cryoconite Holes. <i>Viruses</i> , 2019 , 11,	6.2	17
154	Soil Microbial Networks Shift Across a High-Elevation Successional Gradient. <i>Frontiers in Microbiology</i> , 2019 , 10, 2887	5.7	4
153	Diversity patterns of microbial eukaryotes mirror those of bacteria in Antarctic cryoconite holes. <i>FEMS Microbiology Ecology</i> , 2018 , 94,	4.3	25
152	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	4.4	21
151	Spatio-temporal dynamics of soil bacterial communities as a function of Amazon forest phenology. <i>Scientific Reports</i> , 2018 , 8, 4382	4.9	21
150	Life at extreme elevations on Atacama volcanoes: the closest thing to Mars on Earth?. <i>Antonie Van Leeuwenhoek</i> , 2018 , 111, 1389-1401	2.1	20
149	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	5.6	11

148	Interspecific Plant Interactions Reflected in Soil Bacterial Community Structure and Nitrogen Cycling in Primary Succession. <i>Frontiers in Microbiology</i> , 2018 , 9, 128	5.7	41
147	Plant diversity and density predict belowground diversity and function in an early successional alpine ecosystem. <i>Ecology</i> , 2018 , 99, 1942-1952	4.6	40
146	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	3.9	10
145	Island Biogeography of Cryoconite Hole Bacteria in Antarctica's Taylor Valley and Around the World. <i>Frontiers in Ecology and Evolution</i> , 2018 , 6,	3.7	21
144	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	4.1	33
143	Phosphorus, not nitrogen, limits plants and microbial primary producers following glacial retreat. <i>Science Advances</i> , 2018 , 4, eaaq0942	14.3	49
142	Freeze-thaw revival of rotifers and algae in a desiccated, high-elevation (5500 meters) microbial mat, high Andes, Peru. <i>Extremophiles</i> , 2017 , 21, 573-580	3	5
141	Plant colonization of moss-dominated soils in the alpine: Microbial and biogeochemical implications. <i>Soil Biology and Biochemistry</i> , 2017 , 111, 135-142	7.5	23
140	Nutrient limitation of soil microbial activity during the earliest stages of ecosystem development. <i>Oecologia</i> , 2017 , 185, 513-524	2.9	37
139	Spatial autocorrelation of microbial communities atop a debris-covered glacier is evidence of a supraglacial chronosequence. <i>FEMS Microbiology Ecology</i> , 2017 , 93,	4.3	7
138	A in high places: functioning populations or dormant cells from the atmosphere?. <i>Mycology</i> , 2017 , 8, 1533-1537	16.3	27
137	Rapid Shifts in Soil Nutrients and Decomposition Enzyme Activity in Early Succession Following Forest Fire. <i>Forests</i> , 2017 , 8, 347	2.8	27
136	Biogeochemical Stoichiometry Reveals P and N Limitation Across the Post-glacial Landscape of Denali National Park, Alaska. <i>Ecosystems</i> , 2016 , 19, 1164-1177	3.9	30
135	Nutrient limitation of microbial phototrophs on a debris-covered glacier. <i>Soil Biology and Biochemistry</i> , 2016 , 95, 156-163	7.5	37
134	Decreases in average bacterial community rRNA operon copy number during succession. <i>ISME Journal</i> , 2016 , 10, 1147-56	11.9	94
133	Incorporating biotic factors in species distribution modeling: are interactions with soil microbes important?. <i>Ecography</i> , 2016 , 39, 970-980	6.5	19
132	Growth of high-elevation <i>Cryptococcus</i> sp. during extreme freeze-thaw cycles. <i>Extremophiles</i> , 2016 , 20, 579-88	3	15
131	Biogeochemical drivers of microbial community convergence across actively retreating glaciers. <i>Soil Biology and Biochemistry</i> , 2016 , 101, 74-84	7.5	30

130	Phylogeny of ulotrichalean algae from extreme high-altitude and high-latitude ecosystems. <i>Polar Biology</i> , 2015 , 38, 689-697	2	14
129	Winter gas exchange between the atmosphere and snow-covered soils on Niwot Ridge, Colorado, USA. <i>Plant Ecology and Diversity</i> , 2015 , 8, 677-688	2.2	8
128	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	7.5	57
127	Plant-microbe interactions at multiple scales across a high-elevation landscape. <i>Plant Ecology and Diversity</i> , 2015 , 8, 703-712	2.2	13
126	Nutrient addition dramatically accelerates microbial community succession. <i>PLoS ONE</i> , 2014 , 9, e102609	3.7	69
125	Metagenomic evidence for metabolism of trace atmospheric gases by high-elevation desert Actinobacteria. <i>Frontiers in Microbiology</i> , 2014 , 5, 698	5.7	47
124	Do bacterial and fungal communities assemble differently during primary succession?. <i>Molecular Ecology</i> , 2014 , 23, 254-8	5.7	89
123	Patterns and processes of microbial community assembly. <i>Microbiology and Molecular Biology Reviews</i> , 2013 , 77, 342-56	13.2	798
122	Phylogeny and biogeography of an uncultured clade of snow chytrids. <i>Environmental Microbiology</i> , 2013 , 15, 2672-80	5.2	34
121	Alpine and Arctic Soil Microbial Communities 2013 , 43-55		8
120	Changes in assembly processes in soil bacterial communities following a wildfire disturbance. <i>ISME Journal</i> , 2013 , 7, 1102-11	11.9	239
119	Do Growth Kinetics of Snow-mold Fungi Explain Exponential CO ₂ Fluxes Through the Snow? 2013 , 245-253		1
118	A simple method for determining limiting nutrients for photosynthetic crusts. <i>Plant Ecology and Diversity</i> , 2012 , 5, 513-519	2.2	19
117	Quantitative methods for the analysis of zoospore fungi. <i>Journal of Microbiological Methods</i> , 2012 , 89, 22-32	2.8	23
116	The potential for microbial life in the highest-elevation (>6000 m.a.s.l.) mineral soils of the Atacama region. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		53
115	Fungal communities at the edge: Ecological lessons from high alpine fungi. <i>Fungal Ecology</i> , 2012 , 5, 443-452	4.2	47
114	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	5.7	44
113	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	4.6	71

112	Estimating phosphorus availability for microbial growth in an emerging landscape. <i>Geoderma</i> , 2011 , 163, 135-140	6.7	19
111	Global distribution of Polaromonas phylotypes--evidence for a highly successful dispersal capacity. <i>PLoS ONE</i> , 2011 , 6, e23742	3.7	90
110	Global patterns in the biogeography of bacterial taxa. <i>Environmental Microbiology</i> , 2011 , 13, 135-144	5.2	279
109	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, 702-8	4.4	63
108	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, 4406-10	11.5	72
107	Microbial biomass and activity in high elevation (>5100 meters) soils from the Annapurna and Sagarmatha regions of the Nepalese Himalayas. <i>Himalayan Journal of Sciences</i> , 2011 , 6, 11-18		10
106	Biogeography and habitat modelling of high-alpine bacteria. <i>Nature Communications</i> , 2010 , 1, 53	17.4	113
105	Can zoosporic true fungi grow or survive in extreme or stressful environments?. <i>Extremophiles</i> , 2010 , 14, 417-25	3	27
104	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, 18315-20	11.5	147
103	Microbial activity and diversity during extreme freeze-thaw cycles in periglacial soils, 5400 m elevation, Cordillera Vilcanota, Peru. <i>Extremophiles</i> , 2009 , 13, 807-16	3	61
102	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	3.8	42
101	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	3.8	89
100	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, 673-81	3	64
99	Environmental DNA sequencing primers for eutardigrades and bdelloid rotifers. <i>BMC Ecology</i> , 2009 , 9, 25	2.7	17
98	Soil CO ₂ flux and photoautotrophic community composition in high-elevation, 'barren' soil. <i>Environmental Microbiology</i> , 2009 , 11, 674-86	5.2	65
97	Fumarole-supported islands of biodiversity within a hyperarid, high-elevation landscape on Socoma Volcano, Puna de Atacama, Andes. <i>Applied and Environmental Microbiology</i> , 2009 , 75, 735-47	4.8	120
96	The effects of chronic nitrogen fertilization on alpine tundra soil microbial communities: implications for carbon and nitrogen cycling. <i>Environmental Microbiology</i> , 2008 , 10, 3093-105	5.2	209
95	Insights and inferences about integron evolution from genomic data. <i>BMC Genomics</i> , 2008 , 9, 261	4.5	40

94	High levels of microbial biomass and activity in unvegetated tropical and temperate alpine soils. <i>Soil Biology and Biochemistry</i> , 2008 , 40, 2605-2610	7.5	54
93	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, 2793-802	4.4	184
92	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	1.8	76
91	Phylogeny and ecophysiology of opportunistic "snow molds" from a subalpine forest ecosystem. <i>Microbial Ecology</i> , 2008 , 56, 681-7	4.4	42
90	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, 635-44	4.1	83
89	Biogeochemical consequences of rapid microbial turnover and seasonal succession in soil. <i>Ecology</i> , 2007 , 88, 1379-85	4.6	241
88	Microbial community succession in an unvegetated, recently deglaciated soil. <i>Microbial Ecology</i> , 2007 , 53, 110-22	4.4	278
87	Increases in soil respiration following labile carbon additions linked to rapid shifts in soil microbial community composition. <i>Biogeochemistry</i> , 2007 , 82, 229-240	3.8	275
86	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, 327-38	2.9	181
85	Biogeography and landscape-scale diversity of the dominant Crenarchaeota of soil. <i>Microbial Ecology</i> , 2006 , 52, 480-90	4.4	44
84	Microbial diversity in alpine tundra wet meadow soil: novel Chloroflexi from a cold, water-saturated environment. <i>Environmental Microbiology</i> , 2006 , 8, 1471-86	5.2	116
83	Winter forest soil respiration controlled by climate and microbial community composition. <i>Nature</i> , 2006 , 439, 711-4	50.4	411
82	A temporal approach to linking aboveground and belowground ecology. <i>Trends in Ecology and Evolution</i> , 2005 , 20, 634-41	10.9	602
81	Structure and function of alpine and arctic soil microbial communities. <i>Research in Microbiology</i> , 2005 , 156, 775-84	4	98
80	Recovery of microbially mediated processes in soil augmented with a pentachlorophenol-mineralizing bacterium. <i>Environmental Toxicology and Chemistry</i> , 2005 , 24, 1912-7	3.8	9
79	Integron diversity in heavy-metal-contaminated mine tailings and inferences about integron evolution. <i>Applied and Environmental Microbiology</i> , 2004 , 70, 1160-8	4.8	111
78	Soil Microbial Dynamics in Costa Rica: Seasonal and Biogeochemical Constraints ¹ . <i>Biotropica</i> , 2004 , 36, 184	2.3	1
77	THE RATE AND PATTERN OF CLADOGENESIS IN MICROBES. <i>Evolution; International Journal of Organic Evolution</i> , 2004 , 58, 946	3.8	5

76	Molecular and metabolic characterization of cold-tolerant alpine soil <i>Pseudomonas sensu stricto</i> . <i>Applied and Environmental Microbiology</i> , 2004 , 70, 483-9	4.8	75
75	Soil Microbial Dynamics in Costa Rica: Seasonal and Biogeochemical Constraints. <i>Biotropica</i> , 2004 , 36, 184-195	2.3	52
74	The rate and pattern of cladogenesis in microbes. <i>Evolution; International Journal of Organic Evolution</i> , 2004 , 58, 946-55	3.8	31
73	Impacts of chronic nitrogen additions vary seasonally and by microbial functional group in tundra soils. <i>Biogeochemistry</i> , 2004 , 69, 1-17	3.8	42
72	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	3.8	66
71	Microbial growth under the snow: Implications for nutrient and allelochemical availability in temperate soils. <i>Plant and Soil</i> , 2004 , 259, 1-7	4.2	165
70	Seasonal changes in an alpine soil bacterial community in the colorado rocky mountains. <i>Applied and Environmental Microbiology</i> , 2004 , 70, 2867-79	4.8	268
69	SOIL MICROBIAL DYNAMICS AND BIOGEOCHEMISTRY IN TROPICAL FORESTS AND PASTURES, SOUTHWESTERN COSTA RICA 2003 , 13, 314-326		56
68	Seasonal dynamics of previously unknown fungal lineages in tundra soils. <i>Science</i> , 2003 , 301, 1359-61	33.3	493
67	Endogenous methanogenesis stimulates oxidation of atmospheric CH ₄ in alpine tundra soil. <i>Microbial Ecology</i> , 2002 , 43, 408-15	4.4	18
66	Changes in soil microbial community structure and function in an alpine dry meadow following spring snow melt. <i>Microbial Ecology</i> , 2002 , 43, 307-14	4.4	221
65	Phosphorus Limitation of Microbial Processes in Moist Tropical Forests: Evidence from Short-term Laboratory Incubations and Field Studies. <i>Ecosystems</i> , 2002 , 5, 0680-0691	3.9	332
64	Disruption of narH, narJ, and moaE inhibits heterotrophic nitrification in <i>Pseudomonas</i> strain M19. <i>Applied and Environmental Microbiology</i> , 2002 , 68, 6462-5	4.8	14
63	Fungal and bacterial responses to phenolic compounds and amino acids in high altitude barren soils. <i>Soil Biology and Biochemistry</i> , 2002 , 34, 989-995	7.5	31
62	Soil ecological interactions: comparisons between tropical and subalpine forests. <i>Oecologia</i> , 2001 , 128, 549-556	2.9	34
61	Isolation and phylogenetic identification of a dark-septate fungus associated with the alpine plant <i>Ranunculus adoneus</i> . <i>New Phytologist</i> , 2001 , 150, 747-755	9.8	32
60	An empirical model of amino acid transformations in an alpine soil. <i>Soil Biology and Biochemistry</i> , 2001 , 33, 189-198	7.5	63
59	Microbial Biomass Levels in Barren and Vegetated High Altitude Talus Soils. <i>Soil Science Society of America Journal</i> , 2001 , 65, 111-117	2.5	22

58	Effects of Willows (<i>Salix brachycarpa</i>) on Populations of Salicylate-Mineralizing Microorganisms in Alpine Soils. <i>Journal of Chemical Ecology</i> , 2000 , 26, 2049-2057	2.7	29
57	Carbon availability and temperature control the post-snowmelt decline in alpine soil microbial biomass. <i>Soil Biology and Biochemistry</i> , 2000 , 32, 441-448	7.5	193
56	Seasonal Partitioning of Nitrogen by Plants and Soil Microorganisms in an Alpine Ecosystem. <i>Ecology</i> , 1999 , 80, 1883	4.6	6
55	Landscape patterns of CH ₄ fluxes in an alpine tundra ecosystem. <i>Biogeochemistry</i> , 1999 , 45, 243-264	3.8	38
54	Ectomycorrhizal transfer of amino acid-nitrogen to the alpine sedge <i>Kobresia myosuroides</i> . <i>New Phytologist</i> , 1999 , 142, 163-167	9.8	29
53	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	4.2	9
52	Variation in competitive abilities of plants and microbes for specific amino acids. <i>Biology and Fertility of Soils</i> , 1999 , 29, 257-261	6.1	110
51	Acetate stimulates atmospheric CH ₄ oxidation by an alpine tundra soil. <i>Soil Biology and Biochemistry</i> , 1999 , 31, 1649-1655	7.5	31
50	LINKS BETWEEN MICROBIAL POPULATION DYNAMICS AND NITROGEN AVAILABILITY IN AN ALPINE ECOSYSTEM. <i>Ecology</i> , 1999 , 80, 1623-1631	4.6	269
49	Landscape patterns of CH ₄ fluxes in an alpine tundra ecosystem. <i>Biogeochemistry</i> , 1999 , 45, 243-264	3.8	16
48	Methane flux in subalpine wetland and unsaturated soils in the southern Rocky Mountains. <i>Global Biogeochemical Cycles</i> , 1999 , 13, 101-113	5.9	35
47	SEASONAL PARTITIONING OF NITROGEN BY PLANTS AND SOIL MICROORGANISMS IN AN ALPINE ECOSYSTEM. <i>Ecology</i> , 1999 , 80, 1883-1891	4.6	158
46	LINKS BETWEEN MICROBIAL POPULATION DYNAMICS AND NITROGEN AVAILABILITY IN AN ALPINE ECOSYSTEM 1999 , 80, 1623		7
45	Inorganic nitrogen and microbial biomass dynamics before and during spring snowmelt. <i>Biogeochemistry</i> , 1998 , 43, 1-15	3.8	250
44	Wetting stimulates atmospheric CH ₄ oxidation by alpine soil. <i>FEMS Microbiology Ecology</i> , 1998 , 25, 349-353	4.3	19
43	Nitrogen Uptake during Snowmelt by the Snow Buttercup, <i>Ranunculus adoneus</i> . <i>Arctic and Alpine Research</i> , 1998 , 30, 121		55
42	TOPOGRAPHIC PATTERNS OF ABOVE- AND BELOWGROUND PRODUCTION AND NITROGEN CYCLING IN ALPINE TUNDRA. <i>Ecology</i> , 1998 , 79, 2253-2266	4.6	185
41	TOPOGRAPHIC PATTERNS OF ABOVE- AND BELOWGROUND PRODUCTION AND NITROGEN CYCLING IN ALPINE TUNDRA 1998 , 79, 2253		1

40	Winter production of CO. <i>Oecologia</i> , 1997 , 110, 403	2.9	10
39	Winter production of CO and NO from alpine tundra: environmental controls and relationship to inter-system C and N fluxes. <i>Oecologia</i> , 1997 , 110, 403-413	2.9	214
38	Microbial responses to nitrogen additions in alpine tundra soil. <i>Soil Biology and Biochemistry</i> , 1996 , 28, 751-755	7.5	69
37	Maintenance energy model for microbial degradation of toxic chemicals in soil. <i>Soil Biology and Biochemistry</i> , 1996 , 28, 907-915	7.5	7
36	Symbiotic N-fixation in alpine tundra: ecosystem input and variation in fixation rates among communities. <i>Oecologia</i> , 1996 , 108, 345-350	2.9	45
35	Maintenance energy model for microbial degradation of toxic chemicals in soil. <i>Soil Biology and Biochemistry</i> , 1996 , 28, 1729-1737	7.5	3
34	Estimating the biomass of microbial functional groups using rates of growth-related soil respiration. <i>Soil Biology and Biochemistry</i> , 1996 , 28, 1569-1577	7.5	40
33	Microbial activity under alpine snowpacks, Niwot Ridge, Colorado. <i>Biogeochemistry</i> , 1996 , 32, 93	3.8	234
32	A simple method for quantifying activity and survival of microorganisms involved in bioremediation processes. <i>Applied Biochemistry and Biotechnology</i> , 1995 , 54, 259-70	3.2	9
31	Use of a pentachlorophenol degrading bacterium to bioremediate highly contaminated soil. <i>Applied Biochemistry and Biotechnology</i> , 1995 , 54, 271-5	3.2	30
30	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		103
29	Improved procedure for obtaining statistically valid parameter estimates from soil respiration data. <i>Soil Biology and Biochemistry</i> , 1995 , 27, 1-7	7.5	41
28	Nitrogen Mineralization and Microbial Biomass Nitrogen Dynamics in Three Alpine Tundra Communities. <i>Soil Science Society of America Journal</i> , 1995 , 59, 1036-1043	2.5	80
27	Fluxes of nitrous oxide and methane from nitrogen-amended soils in a Colorado alpine ecosystem. <i>Biogeochemistry</i> , 1994 , 27, 23	3.8	45
26	Effect of glucose on 2,4-dinitrophenol degradation kinetics in sequencing batch reactors. <i>Water Environment Research</i> , 1993 , 65, 73-81	2.8	30
25	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	2.9	100
24	Interactions of bacteria and microflagellates in sequencing batch reactors exhibiting enhanced mineralization of toxic organic chemicals. <i>Microbial Ecology</i> , 1992 , 23, 127-42	4.4	11
23	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	4.3	14

22	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	2.9	6
21	Characterization of a novel <i>Pseudomonas</i> sp. that mineralizes high concentrations of pentachlorophenol. <i>Applied and Environmental Microbiology</i> , 1992 , 58, 2879-85	4.8	110
20	Ecological implications of the destruction of juglone (5-hydroxy-1,4-naphthoquinone) by soil bacteria. <i>Journal of Chemical Ecology</i> , 1990 , 16, 3547-9	2.7	22
19	Supplemental substrate enhancement of 2,4-dinitrophenol mineralization by a bacterial consortium. <i>Applied and Environmental Microbiology</i> , 1990 , 56, 1551-8	4.8	64
18	Coexisting bacterial populations responsible for multiphasic mineralization kinetics in soil. <i>Applied and Environmental Microbiology</i> , 1990 , 56, 2692-7	4.8	23
17	Dynamics of microbial populations in soil: Indigenous microorganisms degrading 2,4-dinitrophenol. <i>Microbial Ecology</i> , 1989 , 18, 285-96	4.4	28
16	Interference between <i>Salsola kali</i> L. seedlings: Implications for plant succession. <i>Plant and Soil</i> , 1989 , 116, 107-110	4.2	8
15	Kinetics of biodegradation of mixtures of substrates in soil. <i>Soil Biology and Biochemistry</i> , 1989 , 21, 703-708	4.0	40
14	Degradation of juglone by soil bacteria. <i>Journal of Chemical Ecology</i> , 1988 , 14, 1561-71	2.7	70
13	Kinetics of p-nitrophenol mineralization by a <i>Pseudomonas</i> sp.: effects of second substrates. <i>Applied and Environmental Microbiology</i> , 1987 , 53, 2617-23	4.8	88
12	Mycorrhizal Fungi on the Galapagos Islands. <i>Biotropica</i> , 1986 , 18, 236	2.3	27
11	Predicting threshold concentrations of organic substrates for bacterial growth. <i>Journal of Theoretical Biology</i> , 1985 , 114, 1-8	2.3	57
10	Growth of phenol-mineralizing microorganisms in fresh water. <i>Applied and Environmental Microbiology</i> , 1985 , 49, 11-4	4.8	8
9	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, 822-7	4.8	104
8	Models for the kinetics of biodegradation of organic compounds not supporting growth. <i>Applied and Environmental Microbiology</i> , 1985 , 50, 323-31	4.8	159
7	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	2.7	7
6	EFFECT OF THE NON-MYCORRHIZAL PIONEER PLANT <i>SALSOLA KALI</i> L. (CHENOPODIACEAE) ON VESICULAR-ARBUSCULAR MYCORRHIZAL (VAM) FUNGI 1984 , 71, 1035		5
5	INTERSPECIFIC PLANT ASSOCIATION EFFECTS ON VESICULAR-ARBUSCULAR MYCORRHIZA OCCURRENCE IN <i>ATRIPLEX CONFERTIFOLIA</i> . <i>New Phytologist</i> , 1983 , 95, 241-246	9.8	36

4	Invasive annual cheatgrass enhances the abundance of native microbial and microinvertebrate eukaryotes but reduces invasive earthworms. <i>Plant and Soil</i> ,1	4.2	0
3	The Missing Fungi: New Insights from Culture-Independent Molecular Studies of Soil55-66		3
2	Atmospheric deposition as a source of carbon and nutrients to barren, alpine soils of the Colorado Rocky Mountains		2
1	Kinetics of Microbial Processes and Population Growth in Soil		1