

Steve K Schmidt

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183
papers

12,190
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57
h-index

107
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188
ext. papers

14,062
ext. citations

5.3
avg, IF

6.27
L-index

#	Paper	IF	Citations
183	Patterns and processes of microbial community assembly. <i>Microbiology and Molecular Biology Reviews</i> , 2013 , 77, 342-56	13.2	798
182	A temporal approach to linking aboveground and belowground ecology. <i>Trends in Ecology and Evolution</i> , 2005 , 20, 634-41	10.9	602
181	Seasonal dynamics of previously unknown fungal lineages in tundra soils. <i>Science</i> , 2003 , 301, 1359-61	33.3	493
180	Winter forest soil respiration controlled by climate and microbial community composition. <i>Nature</i> , 2006 , 439, 711-4	50.4	411
179	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
178	Global patterns in the biogeography of bacterial taxa. <i>Environmental Microbiology</i> , 2011 , 13, 135-144	5.2	279
177	Microbial community succession in an unvegetated, recently deglaciated soil. <i>Microbial Ecology</i> , 2007 , 53, 110-22	4.4	278
176	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
175	LINKS BETWEEN MICROBIAL POPULATION DYNAMICS AND NITROGEN AVAILABILITY IN AN ALPINE ECOSYSTEM. <i>Ecology</i> , 1999 , 80, 1623-1631	4.6	269
174	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
173	Inorganic nitrogen and microbial biomass dynamics before and during spring snowmelt. <i>Biogeochemistry</i> , 1998 , 43, 1-15	3.8	250
172	Biogeochemical consequences of rapid microbial turnover and seasonal succession in soil. <i>Ecology</i> , 2007 , 88, 1379-85	4.6	241
171	Changes in assembly processes in soil bacterial communities following a wildfire disturbance. <i>ISME Journal</i> , 2013 , 7, 1102-11	11.9	239
170	Microbial activity under alpine snowpacks, Niwot Ridge, Colorado. <i>Biogeochemistry</i> , 1996 , 32, 93	3.8	234
169	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
168	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
167	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

166	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
165	TOPOGRAPHIC PATTERNS OF ABOVE- AND BELOWGROUND PRODUCTION AND NITROGEN CYCLING IN ALPINE TUNDRA. <i>Ecology</i> , 1998 , 79, 2253-2266	4.6	185
164	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
163	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
162	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
161	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
160	SEASONAL PARTITIONING OF NITROGEN BY PLANTS AND SOIL MICROORGANISMS IN AN ALPINE ECOSYSTEM. <i>Ecology</i> , 1999 , 80, 1883-1891	4.6	158
159	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
158	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, 735-47	4.8	120
157	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
156	Biogeography and habitat modelling of high-alpine bacteria. <i>Nature Communications</i> , 2010 , 1, 53	17.4	113
155	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
154	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
153	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
152	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
151	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
150	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
149	Structure and function of alpine and arctic soil microbial communities. <i>Research in Microbiology</i> , 2005 , 156, 775-84	4	98

148	Decreases in average bacterial community rRNA operon copy number during succession. <i>ISME Journal</i> , 2016 , 10, 1147-56	11.9	94
147	Global distribution of <i>Polaromonas</i> phylotypes--evidence for a highly successful dispersal capacity. <i>PLoS ONE</i> , 2011 , 6, e23742	3.7	90
146	Do bacterial and fungal communities assemble differently during primary succession?. <i>Molecular Ecology</i> , 2014 , 23, 254-8	5.7	89
145	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
144	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
143	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
142	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
141	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
140	Molecular and metabolic characterization of cold-tolerant alpine soil <i>Pseudomonas</i> sensu stricto. <i>Applied and Environmental Microbiology</i> , 2004 , 70, 483-9	4.8	75
139	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
138	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
137	Degradation of juglone by soil bacteria. <i>Journal of Chemical Ecology</i> , 1988 , 14, 1561-71	2.7	70
136	Nutrient addition dramatically accelerates microbial community succession. <i>PLoS ONE</i> , 2014 , 9, e102609	3.7	69
135	Microbial responses to nitrogen additions in alpine tundra soil. <i>Soil Biology and Biochemistry</i> , 1996 , 28, 751-755	7.5	69
134	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
133	Soil CO ₂ flux and photoautotrophic community composition in high-elevation, 'barren' soil. <i>Environmental Microbiology</i> , 2009 , 11, 674-86	5.2	65
132	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
131	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

130	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
129	An empirical model of amino acid transformations in an alpine soil. <i>Soil Biology and Biochemistry</i> , 2001 , 33, 189-198	7.5	63
128	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
127	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
126	Predicting threshold concentrations of organic substrates for bacterial growth. <i>Journal of Theoretical Biology</i> , 1985 , 114, 1-8	2.3	57
125	SOIL MICROBIAL DYNAMICS AND BIOGEOCHEMISTRY IN TROPICAL FORESTS AND PASTURES, SOUTHWESTERN COSTA RICA 2003 , 13, 314-326		56
124	Nitrogen Uptake during Snowmelt by the Snow Buttercup, <i>Ranunculus adoneus</i> . <i>Arctic and Alpine Research</i> , 1998 , 30, 121		55
123	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
122	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
121	Soil Microbial Dynamics in Costa Rica: Seasonal and Biogeochemical Constraints. <i>Biotropica</i> , 2004 , 36, 184-195	2.3	52
120	Phosphorus, not nitrogen, limits plants and microbial primary producers following glacial retreat. <i>Science Advances</i> , 2018 , 4, eaaq0942	14.3	49
119	Metagenomic evidence for metabolism of trace atmospheric gases by high-elevation desert Actinobacteria. <i>Frontiers in Microbiology</i> , 2014 , 5, 698	5.7	47
118	Fungal communities at the edge: Ecological lessons from high alpine fungi. <i>Fungal Ecology</i> , 2012 , 5, 443-452	4.2	47
117	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
116	Fluxes of nitrous oxide and methane from nitrogen-amended soils in a Colorado alpine ecosystem. <i>Biogeochemistry</i> , 1994 , 27, 23	3.8	45
115	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
114	Biogeography and landscape-scale diversity of the dominant Crenarchaeota of soil. <i>Microbial Ecology</i> , 2006 , 52, 480-90	4.4	44
113	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

112	Phylogeny and ecophysiology of opportunistic "snow molds" from a subalpine forest ecosystem. <i>Microbial Ecology</i> , 2008 , 56, 681-7	4.4	42
111	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
110	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
109	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
108	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
107	Insights and inferences about integron evolution from genomic data. <i>BMC Genomics</i> , 2008 , 9, 261	4.5	40
106	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
105	Kinetics of biodegradation of mixtures of substrates in soil. <i>Soil Biology and Biochemistry</i> , 1989 , 21, 703-708	7.0	40
104	Landscape patterns of CH ₄ fluxes in an alpine tundra ecosystem. <i>Biogeochemistry</i> , 1999 , 45, 243-264	3.8	38
103	Nutrient limitation of soil microbial activity during the earliest stages of ecosystem development. <i>Oecologia</i> , 2017 , 185, 513-524	2.9	37
102	Nutrient limitation of microbial phototrophs on a debris-covered glacier. <i>Soil Biology and Biochemistry</i> , 2016 , 95, 156-163	7.5	37
101	INTERSPECIFIC PLANT ASSOCIATION EFFECTS ON VESICULAR-ARBUSCULAR MYCORRHIZA OCCURRENCE IN ATRIPLEX CONFERTIFOLIA. <i>New Phytologist</i> , 1983 , 95, 241-246	9.8	36
100	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
99	Phylogeny and biogeography of an uncultured clade of snow chytrids. <i>Environmental Microbiology</i> , 2013 , 15, 2672-80	5.2	34
98	Soil ecological interactions: comparisons between tropical and subalpine forests. <i>Oecologia</i> , 2001 , 128, 549-556	2.9	34
97	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
96	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
95	The rate and pattern of cladogenesis in microbes. <i>Evolution; International Journal of Organic Evolution</i> , 2004 , 58, 946-55	3.8	31

94	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
93	Acetate stimulates atmospheric CH ₄ oxidation by an alpine tundra soil. <i>Soil Biology and Biochemistry</i> , 1999 , 31, 1649-1655	7.5	31
92	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
91	Use of a pentachlorophenol degrading bacterium to bioremediate highly contaminated soil. <i>Applied Biochemistry and Biotechnology</i> , 1995 , 54, 271-5	3.2	30
90	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
89	Biogeochemical drivers of microbial community convergence across actively retreating glaciers. <i>Soil Biology and Biochemistry</i> , 2016 , 101, 74-84	7.5	30
88	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
87	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
86	Dynamics of microbial populations in soil: Indigenous microorganisms degrading 2,4-dinitrophenol. <i>Microbial Ecology</i> , 1989 , 18, 285-96	4.4	28
85	A in high places: functioning populations or dormant cells from the atmosphere?. <i>Mycology</i> , 2017 , 8, 1533-163	3.1	27
84	Rapid Shifts in Soil Nutrients and Decomposition Enzyme Activity in Early Succession Following Forest Fire. <i>Forests</i> , 2017 , 8, 347	2.8	27
83	Can zoosporic true fungi grow or survive in extreme or stressful environments?. <i>Extremophiles</i> , 2010 , 14, 417-25	3	27
82	Mycorrhizal Fungi on the Galapagos Islands. <i>Biotropica</i> , 1986 , 18, 236	2.3	27
81	Diversity patterns of microbial eukaryotes mirror those of bacteria in Antarctic cryoconite holes. <i>FEMS Microbiology Ecology</i> , 2018 , 94,	4.3	25
80	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
79	Quantitative methods for the analysis of zoosporic fungi. <i>Journal of Microbiological Methods</i> , 2012 , 89, 22-32	2.8	23
78	Coexisting bacterial populations responsible for multiphasic mineralization kinetics in soil. <i>Applied and Environmental Microbiology</i> , 1990 , 56, 2692-7	4.8	23
77	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

76	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
75	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
74	Spatio-temporal dynamics of soil bacterial communities as a function of Amazon forest phenology. <i>Scientific Reports</i> , 2018 , 8, 4382	4.9	21
73	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
72	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
71	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
70	A simple method for determining limiting nutrients for photosynthetic crusts. <i>Plant Ecology and Diversity</i> , 2012 , 5, 513-519	2.2	19
69	Estimating phosphorus availability for microbial growth in an emerging landscape. <i>Geoderma</i> , 2011 , 163, 135-140	6.7	19
68	Wetting stimulates atmospheric CH ₄ oxidation by alpine soil. <i>FEMS Microbiology Ecology</i> , 1998 , 25, 349-353	3.3	19
67	Incorporating biotic factors in species distribution modeling: are interactions with soil microbes important?. <i>Ecography</i> , 2016 , 39, 970-980	6.5	19
66	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
65	Endogenous methanogenesis stimulates oxidation of atmospheric CH ₄ in alpine tundra soil. <i>Microbial Ecology</i> , 2002 , 43, 408-15	4.4	18
64	Environmental DNA sequencing primers for eutardigrades and bdelloid rotifers. <i>BMC Ecology</i> , 2009 , 9, 25	2.7	17
63	Single-Stranded DNA Viruses in Antarctic Cryoconite Holes. <i>Viruses</i> , 2019 , 11,	6.2	17
62	Landscape patterns of CH ₄ fluxes in an alpine tundra ecosystem. <i>Biogeochemistry</i> , 1999 , 45, 243-264	3.8	16
61	Growth of high-elevation <i>Cryptococcus</i> sp. during extreme freeze-thaw cycles. <i>Extremophiles</i> , 2016 , 20, 579-88	3	15
60	Phylogeny of ulotrichalean algae from extreme high-altitude and high-latitude ecosystems. <i>Polar Biology</i> , 2015 , 38, 689-697	2	14
59	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

58	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
57	Plant-microbe interactions at multiple scales across a high-elevation landscape. <i>Plant Ecology and Diversity</i> , 2015 , 8, 703-712	2.2	13
56	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
55	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
54	The disappearing periglacial ecosystem atop Mt. Kilimanjaro supports both cosmopolitan and endemic microbial communities. <i>Scientific Reports</i> , 2019 , 9, 10676	4.9	11
53	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
52	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
51	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
50	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
49	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
48	Winter production of CO. <i>Oecologia</i> , 1997 , 110, 403	2.9	10
47	Growth of cyanobacterial soil crusts during diurnal freeze-thaw cycles. <i>Journal of Microbiology</i> , 2019 , 57, 243-251	3	9
46	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
45	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
44	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
43	Experimental cryoconite holes as mesocosms for studying community ecology. <i>Polar Biology</i> , 2019 , 42, 1973-1984	2	8
42	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
41	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

40	Alpine and Arctic Soil Microbial Communities 2013 , 43-55		8
39	Interference between <i>Salsola kali</i> L. seedlings: Implications for plant succession. <i>Plant and Soil</i> , 1989 , 116, 107-110	4.2	8
38	Growth of phenol-mineralizing microorganisms in fresh water. <i>Applied and Environmental Microbiology</i> , 1985 , 49, 11-4	4.8	8
37	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
36	Maintenance energy model for microbial degradation of toxic chemicals in soil. <i>Soil Biology and Biochemistry</i> , 1996 , 28, 907-915	7.5	7
35	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
34	LINKS BETWEEN MICROBIAL POPULATION DYNAMICS AND NITROGEN AVAILABILITY IN AN ALPINE ECOSYSTEM 1999 , 80, 1623		7
33	Seasonal Partitioning of Nitrogen by Plants and Soil Microorganisms in an Alpine Ecosystem. <i>Ecology</i> , 1999 , 80, 1883	4.6	6
32	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
31	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
30	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
29	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
28	THE RATE AND PATTERN OF CLADOGENESIS IN MICROBES. <i>Evolution; International Journal of Organic Evolution</i> , 2004 , 58, 946	3.8	5
27	EFFECT OF THE NON-MYCORRHIZAL PIONEER PLANT <i>SALSOLA KALI</i> L. (CHENOPODIACEAE) ON VESICULAR-ARBUSCULAR MYCORRHIZAL (VAM) FUNGI 1984 , 71, 1035		5
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