John Barrett

List of Publications by Year in descending order

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90	4,874	76326	98798
papers	citations	40 h-index	67 g-index

92	92	92	4282
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Cross-sectional Cohort Study to Assess Long-term Neurocognitive and Psychiatric Symptoms of Mefloquine Use in Veterans. Military Medicine, 2022, , .	0.8	1
2	Connectivity: insights from the U.S. Long Term Ecological Research Network. Ecosphere, 2021, 12, e03432.	2.2	4
3	Historical forest disturbance mediates soil microbial community responses to drought. Environmental Microbiology, 2021, 23, 6405-6419.	3.8	10
4	Emergent properties of microbial communities drive accelerated biogeochemical cycling in disturbed temperate forests. Ecology, 2021, 102, e03553.	3.2	12
5	Counting Carbon: Quantifying Biomass in the McMurdo Dry Valleys through Orbital & Field Observations. International Journal of Remote Sensing, 2021, 42, 8597-8623.	2.9	5
6	Estimating microbial mat biomass in the McMurdo Dry Valleys, Antarctica using satellite imagery and ground surveys. Polar Biology, 2020, 43, 1753-1767.	1.2	16
7	Livestock manure and antibiotics alter extracellular enzyme activity. Applied Soil Ecology, 2020, 155, 103667.	4.3	9
8	Evaluating Alternative Metacommunity Hypotheses for Diatoms in the McMurdo Dry Valleys Using Simulations and Remote Sensing Data. Frontiers in Ecology and Evolution, 2020, 8, .	2.2	1
9	Remote characterization of photosynthetic communities in the Fryxell basin of Taylor Valley, Antarctica. Antarctic Science, 2020, 32, 255-270.	0.9	19
10	Prolonged exposure to manure from livestockâ€administered antibiotics decreases ecosystem carbonâ€use efficiency and alters nitrogen cycling. Ecology Letters, 2019, 22, 2067-2076.	6.4	30
11	Volatile methanol and acetone additions increase labile soil carbon and inhibit nitrification. Biogeochemistry, 2019, 145, 127-140.	3.5	14
12	Unimodal productivityâ€“diversity relationships among bacterial communities in a simple polar soil ecosystem. Environmental Microbiology, 2019, 21, 2523-2532.	3.8	12
13	Nematodes in a polar desert reveal the relative role of biotic interactions in the coexistence of soil animals. Communications Biology, 2019, 2, 63.	4.4	34
14	Biotic interactions are an unexpected yet critical control on the complexity of an abiotically driven polar ecosystem. Communications Biology, 2019, 2, 62.	4.4	42
15	Soil Bacterial and Fungal Communities Exhibit Distinct Long-Term Responses to Disturbance in Temperate Forests. Frontiers in Microbiology, 2019, 10, 2872.	3.5	37
16	Interactions of Water and Nitrogen on Primary Productivity Across Spatial and Temporal Scales in Grassland and Shrubland Ecosystems. , 2019, , 417-437.		1
17	Stable C and N isotope ratios reveal soil food web structure and identify the nematode Eudorylaimus antarcticus as an omnivoreâ€“predator inÂTaylor Valley, Antarctica. Polar Biology, 2018, 41, 1013-1018.	1.2	37
18	Observed trends of soil fauna in the Antarctic Dry Valleys: early signs of shifts predicted under climate change. Ecology, 2018, 99, 312-321.	3.2	46

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19	Catch and release: Hyporheic retention and mineralization of Nâ€fixing Nostoc sustains downstream microbial mat biomass in two polar desert streams. Limnology and Oceanography Letters, 2018, 3, 357-364.	3.9	24
20	Stoichiometric Shifts in Soil C:N:P Promote Bacterial Taxa Dominance, Maintain Biodiversity, and Deconstruct Community Assemblages. Frontiers in Microbiology, 2018, 9, 1401.	3.5	56
21	Decadal ecosystem response to an anomalous melt season in a polar desert in Antarctica. Nature Ecology and Evolution, 2017, 1, 1334-1338.	7.8	79
22	A simulationâ€based approach to understand how metacommunity characteristics influence emergent biodiversity patterns. Oikos, 2017, 126, 723-737.	2.7	32
23	Primary productivity as a control over soil microbial diversity along environmental gradients in a polar desert ecosystem. PeerJ, 2017, 5, e3377.	2.0	14
24	Microbial Community Responses to Increased Water and Organic Matter in the Arid Soils of the McMurdo Dry Valleys, Antarctica. Frontiers in Microbiology, 2016, 7, 1040.	3.5	59
25	Evidence for dispersal and habitat controls on pond diatom communities from the McMurdo Sound Region of Antarctica. Polar Biology, 2016, 39, 2441-2456.	1.2	31
26	Substrate availability drives spatial patterns in richness of ammonia-oxidizing bacteria and archaea in temperate forest soils. Soil Biology and Biochemistry, 2016, 94, 169-172.	8.8	43
27	Recovery of Antarctic stream epilithon from simulated scouring events. Antarctic Science, 2015, 27, 341-354.	0.9	9
28	Paired carbon and nitrogen metabolism by ammoniaâ€oxidizing bacteria and archaea in temperate forest soils. Ecosphere, 2015, 6, 1-11.	2.2	5
29	Plant Invasions Associated with Change in Root-Zone Microbial Community Structure and Diversity. PLoS ONE, 2015, 10, e0141424.	2.5	64
30	Niche and metabolic principles explain patterns of diversity and distribution: theory and a case study with soil bacterial communities. Proceedings of the Royal Society B: Biological Sciences, 2015, 282, 20142630.	2.6	61
31	Global environmental change and the nature of aboveground net primary productivity responses: insights from long-term experiments. Oecologia, 2015, 177, 935-947.	2.0	48
32	Linking management to biodiversity in built ponds using metacommunity simulations. Ecological Modelling, 2015, 296, 36-45.	2.5	29
33	Characterization of growing bacterial populations in McMurdo Dry Valley soils through stable isotope probing with¹⁸O-water. FEMS Microbiology Ecology, 2014, 89, 415-425.	2.7	49
34	Influence of soil properties on archaeal diversity and distribution in the McMurdo Dry Valleys, Antarctica. FEMS Microbiology Ecology, 2014, 89, 347-359.	2.7	44
35	Bacterial community composition of divergent soil habitats in a polar desert. FEMS Microbiology Ecology, 2014, 89, 490-494.	2.7	44
36	Substrate and nutrient limitation of ammonia-oxidizing bacteria and archaea in temperate forest soil. Soil Biology and Biochemistry, 2014, 69, 141-146.	8.8	58

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37	Soil Microbial Responses to Increased Moisture and Organic Resources along a Salinity Gradient in a Polar Desert. Applied and Environmental Microbiology, 2014, 80, 3034-3043.	3.1	171
38	Water track modification of soil ecosystems in the Lake Hoare basin, Taylor Valley, Antarctica. Antarctic Science, 2014, 26, 153-162.	0.9	17
39	Spatial and temporal patterns of snow accumulation and aerial ablation across the McMurdo Dry Valleys, Antarctica. Hydrological Processes, 2013, 27, 2864-2875.	2.6	11
40	Shallow groundwater systems in a polar desert, McMurdo Dry Valleys, Antarctica. Hydrogeology Journal, 2013, 21, 171-183.	2.1	39
41	Impact of labile and recalcitrant carbon treatments on available nitrogen and plant communities in a semiarid ecosystem. , 2013, 23, 537-545.		18
42	Local and regional influences over soil microbial metacommunities in the Transantarctic Mountains. Ecosphere, 2013, 4, 1-24.	2.2	45
43	Environmental controls over bacterial communities in polar desert soils. Ecosphere, 2013, 4, 1-17.	2.2	32
44	Seasonal controls on snow distribution and aerial ablation at the snow-patch and landscape scales, McMurdo Dry Valleys, Antarctica. Cryosphere, 2013, 7, 917-931.	3.9	10
45	Factors Controlling Soil Microbial Biomass and Bacterial Diversity and Community Composition in a Cold Desert Ecosystem: Role of Geographic Scale. PLoS ONE, 2013, 8, e66103.	2.5	98
46	Implications of meltwater pulse events for soil biology and biogeochemical cycling in a polar desert. Polar Research, 2011, 30, 14555.	1.6	17
47	Bacterial Community Structure Along Moisture Gradients in the Parafluvial Sediments of Two Ephemeral Desert Streams. Microbial Ecology, 2011, 61, 543-556.	2.8	107
48	Resolving environmental drivers of microbial community structure in Antarctic soils. Antarctic Science, 2010, 22, 673-680.	0.9	59
49	The legacy of aqueous environments on soils of the McMurdo Dry Valleys: contexts for future exploration of martian soils. , 2010, , 78-109.		3
50	Experimentally increased snow accumulation alters soil moisture and animal community structure in a polar desert. Polar Biology, 2010, 33, 897-907.	1.2	39
51	On the rocks: the microbiology of Antarctic Dry Valley soils. Nature Reviews Microbiology, 2010, 8, 129-138.	28.6	505
52	Spatial variation in soil active-layer geochemistry across hydrologic margins in polar desert ecosystems. Hydrology and Earth System Sciences, 2009, 13, 2349-2358.	4.9	40
53	Interactions between physical and biotic factors influence CO2 flux in Antarctic dry valley soils. Soil Biology and Biochemistry, 2009, 41, 1510-1517.	8.8	87
54	Long-term experimental warming reduces soil nematode populations in the McMurdo Dry Valleys, Antarctica. Soil Biology and Biochemistry, 2009, 41, 2052-2060.	8.8	90

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55	Hydrologic characteristics of lakeâ€•and streamâ€side riparian wetted margins in the McMurdo Dry Valleys, Antarctica. Hydrological Processes, 2009, 23, 1255-1267.	2.6	37
56	Landscape Distribution of Microbial Activity in the McMurdo Dry Valleys: Linked Biotic Processes, Hydrology, and Geochemistry in a Cold Desert Ecosystem. Ecosystems, 2009, 12, 562-573.	3.4	68
57	Terrestrial mesofauna in above- and below-ground habitats: Taylor Valley, Antarctica. Polar Biology, 2009, 32, 1549-1558.	1.2	18
58	Thermal characterisation of active layer across a soil moisture gradient in the McMurdo Dry Valleys, Antarctica. Permafrost and Periglacial Processes, 2009, 20, 27-39.	3.4	37
59	Effects of Human Trampling on Populations of Soil Fauna in the McMurdo Dry Valleys, Antarctica. Conservation Biology, 2008, 22, 1544-1551.	4.7	37
60	Microbial community composition in soils of Northern Victoria Land, Antarctica. Environmental Microbiology, 2008, 10, 1713-1724.	3.8	182
61	Decline in a dominant invertebrate species contributes to altered carbon cycling in a lowâ€diversity soil ecosystem. Global Change Biology, 2008, 14, 1734-1744.	9.5	60
62	Persistent effects of a discrete warming event on a polar desert ecosystem. Global Change Biology, 2008, 14, 2249-2261.	9.5	119
63	Soil phosphorus cycling in an Antarctic polar desert. Geoderma, 2008, 144, 21-31.	5.1	38
64	The Influence of Soil Geochemistry on Nematode Distribution, Mcmurdo Dry Valleys, Antarctica. Arctic, Antarctic, and Alpine Research, 2008, 40, 119-128.	1.1	67
65	Hydrologic response to extreme warm and cold summers in the McMurdo Dry Valleys, East Antarctica. Antarctic Science, 2008, 20, 499-509.	0.9	128
66	Biogeochemical stoichiometry of Antarctic Dry Valley ecosystems. Journal of Geophysical Research, 2007, 112, .	3.3	97
67	Controls on the Spatial Dimensions of Wetted Hydrologic Margins of Two Antarctic Lakes. Vadose Zone Journal, 2007, 6, 841-848.	2.2	21
68	Unique Similarity of Faunal Communities across Aquaticâ€“Terrestrial Interfaces in a Polar Desert Ecosystem. Ecosystems, 2007, 10, 523-535.	3.4	29
69	Wind dispersal of soil invertebrates in the McMurdo Dry Valleys, Antarctica. Polar Biology, 2006, 29, 346-352.	1.2	134
70	Salt tolerance and survival thresholds for two species of Antarctic soil nematodes. Polar Biology, 2006, 29, 643-651.	1.2	79
71	Soil carbon turnover in the McMurdo Dry Valleys, Antarctica. Soil Biology and Biochemistry, 2006, 38, 3065-3082.	8.8	68
72	A synthesis of soil biodiversity and ecosystem functioning in Victoria Land, Antarctica. Soil Biology and Biochemistry, 2006, 38, 3001-3002.	8.8	8

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73	Terrestrial ecosystem processes of Victoria Land, Antarctica. Soil Biology and Biochemistry, 2006, 38, 3019-3034.	8.8	119
74	Pedogenic carbonate distribution within glacial till in Taylor Valley, Southern Victoria Land, Antarctica. , 2006, , .		7
75	Phosphorus Fractions in Soils of Taylor Valley, Antarctica. Soil Science Society of America Journal, 2006, 70, 806-815.	2.2	23
76	Co-variation in soil biodiversity and biogeochemistry in northern and southern Victoria Land, Antarctica. Antarctic Science, 2006, 18, 535-548.	0.9	127
77	INTERACTIONS OF WATER AND NITROGEN ON PRIMARY PRODUCTIVITY ACROSS SPATIAL AND TEMPORAL SCALES IN GRASSLAND AND SHRUBLAND ECOSYSTEMS. , 2006, , 201-216.		5
78	Potential Soil Organic Matter Turnover in Taylor Valley, Antarctica. Arctic, Antarctic, and Alpine Research, 2005, 37, 108-117.	1.1	35
79	Soil Carbon Dioxide Flux in Antarctic Dry Valley Ecosystems. Ecosystems, 2004, 7, 286.	3.4	112
80	VARIATION IN BIOGEOCHEMISTRY AND SOIL BIODIVERSITY ACROSS SPATIAL SCALES IN A POLAR DESERT ECOSYSTEM. Ecology, 2004, 85, 3105-3118.	3.2	124
81	Organic matter and soil biota of upland wetlands in Taylor Valley, Antarctica. Polar Biology, 2003, 26, 567-576.	1.2	72
82	Snow-Patch Influence on Soil Biogeochemical Processes and Invertebrate Distribution in the McMurdo Dry Valleys, Antarctica. Arctic, Antarctic, and Alpine Research, 2003, 35, 91-99.	1.1	94
83	Nitrogen in the Central Grasslands Region of the United States. BioScience, 2002, 52, 813.	4.9	34
84	NITROGEN RETENTION IN SEMIARID ECOSYSTEMS ACROSS A SOIL ORGANIC-MATTER GRADIENT. , 2002, 12, 878-890.		52
85	Abiotic Nitrogen Uptake in Semiarid Grassland Soils of the U.S. Great Plains. Soil Science Society of America Journal, 2002, 66, 979-987.	2.2	30
86	Trends in Resin and KCl-extractable Soil Nitrogen Across Landscape Gradients in Taylor Valley, Antarctica. Ecosystems, 2002, 5, 289-299.	3.4	50
87	Stable Nitrogen and Carbon Pools in Grassland Soils of Variable Texture and Carbon Content. Ecosystems, 2002, 5, 461-471.	3.4	58
88	Influence of climate variability on plant production and Nâ€mineralization in Central US grasslands. Journal of Vegetation Science, 2002, 13, 383-394.	2.2	39
89	Abiotic Nitrogen Uptake in Semiarid Grassland Soils of the U.S. Great Plains. Soil Science Society of America Journal, 2002, 66, 979.	2.2	16
90	Potential nitrogen immobilization in grassland soils across a soil organic matter gradient. Soil Biology and Biochemistry, 2000, 32, 1707-1716.	8.8	176