

Rebecca L Mcculley

List of Publications by Year in descending order

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Version: 2024-02-01

88
papers

8,477
citations

94433

37
h-index

49909

87
g-index

90
all docs

90
docs citations

90
times ranked

10160
citing authors

#	ARTICLE	IF	CITATIONS
1	Consistent responses of soil microbial communities to elevated nutrient inputs in grasslands across the globe. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 10967-10972.	7.1	1,023
2	Herbivores and nutrients control grassland plant diversity via light limitation. <i>Nature</i> , 2014, 508, 517-520.	27.8	669
3	Plant diversity predicts beta but not alpha diversity of soil microbes across grasslands worldwide. <i>Ecology Letters</i> , 2015, 18, 85-95.	6.4	612
4	Reconstructing the Microbial Diversity and Function of Pre-Agricultural Tallgrass Prairie Soils in the United States. <i>Science</i> , 2013, 342, 621-624.	12.6	480
5	Productivity Is a Poor Predictor of Plant Species Richness. <i>Science</i> , 2011, 333, 1750-1753.	12.6	463
6	Eutrophication weakens stabilizing effects of diversity in natural grasslands. <i>Nature</i> , 2014, 508, 521-525.	27.8	409
7	Grassland productivity limited by multiple nutrients. <i>Nature Plants</i> , 2015, 1, 15080.	9.3	403
8	Addition of multiple limiting resources reduces grassland diversity. <i>Nature</i> , 2016, 537, 93-96.	27.8	355
9	Carbon fluxes, nitrogen cycling, and soil microbial communities in adjacent urban, native and agricultural ecosystems. <i>Global Change Biology</i> , 2005, 11, 575-587.	9.5	321
10	Local loss and spatial homogenization of plant diversity reduce ecosystem multifunctionality. <i>Nature Ecology and Evolution</i> , 2018, 2, 50-56.	7.8	172
11	A method for simultaneous measurement of soil bacterial abundances and community composition via 16S rRNA gene sequencing. <i>Soil Biology and Biochemistry</i> , 2016, 96, 145-151.	8.8	170
12	Effects of tree species and N additions on forest floor microbial communities and extracellular enzyme activities. <i>Soil Biology and Biochemistry</i> , 2010, 42, 2161-2173.	8.8	168
13	SOIL RESPIRATION AND NUTRIENT CYCLING IN WOODED COMMUNITIES DEVELOPING IN GRASSLAND. <i>Ecology</i> , 2004, 85, 2804-2817.	3.2	160
14	Nutrient uptake as a contributing explanation for deep rooting in arid and semi-arid ecosystems. <i>Oecologia</i> , 2004, 141, 620-628.	2.0	145
15	Anthropogenic nitrogen deposition predicts local grassland primary production worldwide. <i>Ecology</i> , 2015, 96, 1459-1465.	3.2	143
16	Plant species origin predicts dominance and response to nutrient enrichment and herbivores in global grasslands. <i>Nature Communications</i> , 2015, 6, 7710.	12.8	143
17	Global change effects on plant communities are magnified by time and the number of global change factors imposed. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 17867-17873.	7.1	141
18	FORAGES AND PASTURES SYMPOSIUM: Fungal endophytes of tall fescue and perennial ryegrass: Pasture friend or foe? <i>Journal of Animal Science</i> , 2013, 91, 2379-2394.	0.5	112

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19	Predicting the responsiveness of soil biodiversity to deforestation: a cross-biome study. <i>Global Change Biology</i> , 2014, 20, 2983-2994.	9.5	101
20	Cross-biome patterns in soil microbial respiration predictable from evolutionary theory on thermal adaptation. <i>Nature Ecology and Evolution</i> , 2019, 3, 223-231.	7.8	100
21	Soil moisture and soil-litter mixing effects on surface litter decomposition: A controlled environment assessment. <i>Soil Biology and Biochemistry</i> , 2014, 72, 123-132.	8.8	99
22	Tall fescue cultivar and fungal endophyte combinations influence plant growth and root exudate composition. <i>Frontiers in Plant Science</i> , 2015, 6, 183.	3.6	90
23	Conservation of nitrogen increases with precipitation across a major grassland gradient in the Central Great Plains of North America. <i>Oecologia</i> , 2009, 159, 571-581.	2.0	89
24	Abundance of introduced species at home predicts abundance away in herbaceous communities. <i>Ecology Letters</i> , 2011, 14, 274-281.	6.4	88
25	Regional Patterns in Carbon Cycling Across the Great Plains of North America. <i>Ecosystems</i> , 2005, 8, 106-121.	3.4	83
26	Effects of multiple climate change factors on the tall fescue-fungal endophyte symbiosis: infection frequency and tissue chemistry. <i>New Phytologist</i> , 2011, 189, 797-805.	7.3	76
27	Sensitivity of global soil carbon stocks to combined nutrient enrichment. <i>Ecology Letters</i> , 2019, 22, 936-945.	6.4	75
28	General destabilizing effects of eutrophication on grassland productivity at multiple spatial scales. <i>Nature Communications</i> , 2020, 11, 5375.	12.8	75
29	Soil Respiration in a Subtropical Savanna Parkland: Response to Water Additions. <i>Soil Science Society of America Journal</i> , 2007, 71, 820-828.	2.2	72
30	Predicting invasion in grassland ecosystems: is exotic dominance the real embarrassment of richness?. <i>Global Change Biology</i> , 2013, 19, 3677-3687.	9.5	70
31	Infection with a Shoot-Specific Fungal Endophyte (<i>Epichloa</i>) Alters Tall Fescue Soil Microbial Communities. <i>Microbial Ecology</i> , 2016, 72, 197-206.	2.8	67
32	Increasing effects of chronic nutrient enrichment on plant diversity loss and ecosystem productivity over time. <i>Ecology</i> , 2021, 102, e03218.	3.2	62
33	Alkaloids may not be responsible for endophyte-associated reductions in tall fescue decomposition rates. <i>Functional Ecology</i> , 2010, 24, 460-468.	3.6	60
34	Fungal endophyte infection increases carbon sequestration potential of southeastern USA tall fescue stands. <i>Soil Biology and Biochemistry</i> , 2012, 44, 81-92.	8.8	59
35	Soil Litter Mixing Accelerates Decomposition in a Chihuahuan Desert Grassland. <i>Ecosystems</i> , 2013, 16, 183-195.	3.4	59
36	Soil net nitrogen mineralisation across global grasslands. <i>Nature Communications</i> , 2019, 10, 4981.	12.8	57

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37	Nutrient availability controls the impact of mammalian herbivores on soil carbon and nitrogen pools in grasslands. <i>Global Change Biology</i> , 2020, 26, 2060-2071.	9.5	43
38	Herbivory and eutrophication mediate grassland plant nutrient responses across a global climatic gradient. <i>Ecology</i> , 2018, 99, 822-831.	3.2	42
39	Climate and local environment structure asynchrony and the stability of primary production in grasslands. <i>Global Ecology and Biogeography</i> , 2020, 29, 1177-1188.	5.8	41
40	Spatial heterogeneity in species composition constrains plant community responses to herbivory and fertilisation. <i>Ecology Letters</i> , 2018, 21, 1364-1371.	6.4	38
41	Soil Health as a Transformational Change Agent for US Grazing Lands Management. <i>Rangeland Ecology and Management</i> , 2018, 71, 403-408.	2.3	38
42	Fungal endophyte presence and genotype affect plant diversity and soil-to-atmosphere trace gas fluxes. <i>Plant and Soil</i> , 2013, 364, 15-27.	3.7	36
43	Compositional differences in simulated root exudates elicit a limited functional and compositional response in soil microbial communities. <i>Frontiers in Microbiology</i> , 2015, 6, 817.	3.5	34
44	Belowground Biomass Response to Nutrient Enrichment Depends on Light Limitation Across Globally Distributed Grasslands. <i>Ecosystems</i> , 2019, 22, 1466-1477.	3.4	34
45	Position Statement on Crop Adaptation to Climate Change. <i>Crop Science</i> , 2011, 51, 2337-2343.	1.8	33
46	Fungal endophyte infection and host genetic background jointly modulate host response to an aphid-transmitted viral pathogen. <i>Journal of Ecology</i> , 2013, 101, 1007-1018.	4.0	31
47	Warming reduces tall fescue abundance but stimulates toxic alkaloid concentrations in transition zone pastures of the U.S.. <i>Frontiers in Chemistry</i> , 2014, 2, 88.	3.6	31
48	Regional Contingencies in the Relationship between Aboveground Biomass and Litter in the World's Grasslands. <i>PLoS ONE</i> , 2013, 8, e54988.	2.5	27
49	Loss of soil organic carbon following natural forest conversion to Chinese fir plantation. <i>Forest Ecology and Management</i> , 2019, 449, 117476.	3.2	27
50	Microbial processing of plant remains is co-limited by multiple nutrients in global grasslands. <i>Global Change Biology</i> , 2020, 26, 4572-4582.	9.5	27
51	Determinants of community compositional change are equally affected by global change. <i>Ecology Letters</i> , 2021, 24, 1892-1904.	6.4	27
52	Global impacts of fertilization and herbivore removal on soil net nitrogen mineralization are modulated by local climate and soil properties. <i>Global Change Biology</i> , 2020, 26, 7173-7185.	9.5	25
53	Nutrient enrichment increases invertebrate herbivory and pathogen damage in grasslands. <i>Journal of Ecology</i> , 2022, 110, 327-339.	4.0	25
54	A continent-wide study reveals clear relationships between regional abiotic conditions and post-dispersal seed predation. <i>Journal of Biogeography</i> , 2015, 42, 662-670.	3.0	23

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55	Effects of nutrient supply, herbivory, and host community on fungal endophyte diversity. <i>Ecology</i> , 2019, 100, e02758.	3.2	22
56	Spatial Variability in Soil Microbial Communities in a Nitrogen-Saturated Hardwood Forest Watershed. <i>Soil Science Society of America Journal</i> , 2011, 75, 280-286.	2.2	21
57	Seasonal Effects Stronger than Three-Year Climate Manipulation on Grassland Soil Microbial Community. <i>Soil Science Society of America Journal</i> , 2015, 79, 1352-1365.	2.2	21
58	Environmental factors influencing fine-scale distribution of Antarctica's only endemic insect. <i>Oecologia</i> , 2020, 194, 529-539.	2.0	21
59	Microbial Community Composition across the Great Plains. <i>Soil Science Society of America Journal</i> , 2004, 68, 106.	2.2	21
60	Does Fungal Endophyte Infection Improve Tall Fescue's Growth Response to Fire and Water Limitation?. <i>PLoS ONE</i> , 2014, 9, e86904.	2.5	18
61	Climate drivers, host identity and fungal endophyte infection determine virus prevalence in a grassland ecosystem. <i>Journal of Ecology</i> , 2014, 102, 690-699.	4.0	17
62	Ecophysiological Responses of Tall Fescue Genotypes to Fungal Endophyte Infection, Elevated Temperature, and Precipitation. <i>Crop Science</i> , 2015, 55, 2895-2909.	1.8	17
63	Performance of Endophyte Infected Tall Fescue in Europe and North America. <i>PLoS ONE</i> , 2016, 11, e0157382.	2.5	17
64	Aboveground <i>Epichloa coenophiala</i> Grass Associations Do Not Affect Belowground Fungal Symbionts or Associated Plant, Soil Parameters. <i>Microbial Ecology</i> , 2016, 72, 682-691.	2.8	16
65	The effect of a quorum-quenching enzyme on leaf litter decomposition. <i>Soil Biology and Biochemistry</i> , 2013, 64, 65-67.	8.8	15
66	Climate change and <i>Epichloa coenophiala</i> association modify belowground fungal symbioses of tall fescue host. <i>Fungal Ecology</i> , 2018, 31, 37-46.	1.6	15
67	Conversion of Tallgrass Prairie to Woodland: Consequences for Carbon and Nitrogen Cycling. <i>American Midland Naturalist</i> , 2012, 167, 307-321.	0.4	14
68	Time in pasture rotation alters soil microbial community composition and function and increases carbon sequestration potential in a temperate agroecosystem. <i>Science of the Total Environment</i> , 2020, 698, 134233.	8.0	14
69	Temporal rarity is a better predictor of local extinction risk than spatial rarity. <i>Ecology</i> , 2021, 102, e03504.	3.2	14
70	Restoration of Native Warm Season Grassland Species in a Tall Fescue Pasture Using Prescribed Fire and Herbicides. <i>Restoration Ecology</i> , 2012, 20, 194-201.	2.9	13
71	Nutrient addition shifts plant community composition towards earlier flowering species in some prairie ecoregions in the U.S. Central Plains. <i>PLoS ONE</i> , 2017, 12, e0178440.	2.5	13
72	Asexual <i>Epichloa</i> Endophytes Do Not Consistently Alter Arbuscular Mycorrhizal Fungi Colonization in Three Grasses. <i>American Midland Naturalist</i> , 2018, 179, 157-165.	0.4	13

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73	Fungal endophyte symbiosis alters nitrogen source of tall fescue host, but not nitrogen fixation in co-occurring red clover. <i>Plant and Soil</i> , 2016, 405, 243-256.	3.7	12
74	Spatial turnover of multiple ecosystem functions is more associated with plant than soil microbial β -diversity. <i>Ecosphere</i> , 2021, 12, e03644.	2.2	12
75	Nitrogen increases early-stage and slows late-stage decomposition across diverse grasslands. <i>Journal of Ecology</i> , 2022, 110, 1376-1389.	4.0	12
76	Effects of Tall Fescue and Its Fungal Endophyte on the Development and Survival of Tawny-Edged Skippers (Lepidoptera: Hesperidae). <i>Environmental Entomology</i> , 2016, 45, 142-149.	1.4	11
77	Tall Fescue and <i>E. coenophiala</i> Genetics Influence Root-Associated Soil Fungi in a Temperate Grassland. <i>Frontiers in Microbiology</i> , 2019, 10, 2380.	3.5	11
78	Nitrogen but not phosphorus addition affects symbiotic N ₂ fixation by legumes in natural and semi-natural grasslands located on four continents. <i>Plant and Soil</i> , 2022, 478, 689-707.	3.7	11
79	Accurate detection of soil microbial community responses to environmental change requires the use of multiple methods. <i>Soil Biology and Biochemistry</i> , 2022, 169, 108685.	8.8	10
80	Fungal endophyte infection increases tall fescue's survival, growth, and flowering in a reconstructed prairie. <i>Restoration Ecology</i> , 2019, 27, 1000-1007.	2.9	9
81	Opposing community assembly patterns for dominant and nondominant plant species in herbaceous ecosystems globally. <i>Ecology and Evolution</i> , 2021, 11, 17744-17761.	1.9	8
82	Ecosystem function differs between Old World bluestem invaded and native coastal prairie in South Texas. <i>Biological Invasions</i> , 2012, 14, 1483-1500.	2.4	7
83	Seed dynamics of the liana <i>Euonymus fortunei</i> (Celastraceae) and implications for invasibility. <i>Journal of the Torrey Botanical Society</i> , 2018, 145, 225-236.	0.3	5
84	Do trade-offs govern plant species' responses to different global change treatments?. <i>Ecology</i> , 2022, 103, e3626.	3.2	5
85	Impacts of nutrient addition on soil carbon and nitrogen stoichiometry and stability in globally-distributed grasslands. <i>Biogeochemistry</i> , 2022, 159, 353-370.	3.5	5
86	Indications of Deep Soil Water Usage by Limber Pine (<i>Pinus flexilis</i>) and Skunkbush Sumac (<i>Rhus</i>) 152, 178-182.	0.4	2
87	Grazing and No-Till Cropping Impacts on Nitrogen Retention in Dryland Agroecosystems. <i>Journal of Environmental Quality</i> , 2014, 43, 1963-1971.	2.0	1
88	Rangeland Ecology and Management, Volume 71, Issue 4. <i>Rangelands</i> , 2018, 40, 127-128.	1.9	0