

Scott L Collins

List of Publications by Year in descending order

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Version: 2024-02-01

297
papers

27,188
citations

4942

84
h-index

6979

154
g-index

306
all docs

306
docs citations

306
times ranked

21122
citing authors

#	ARTICLE	IF	CITATIONS
1	Rainfall Variability, Carbon Cycling, and Plant Species Diversity in a Mesic Grassland. <i>Science</i> , 2002, 298, 2202-2205.	6.0	942
2	Functional- and abundance-based mechanisms explain diversity loss due to N fertilization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 4387-4392.	3.3	879
3	Modulation of Diversity by Grazing and Mowing in Native Tallgrass Prairie. <i>Science</i> , 1998, 280, 745-747.	6.0	821
4	Ecological Forecasts: An Emerging Imperative. <i>Science</i> , 2001, 293, 657-660.	6.0	774
5	Species diversity enhances ecosystem functioning through interspecific facilitation. <i>Nature</i> , 2002, 415, 426-429.	13.7	692
6	The Keystone Role of Bison in North American Tallgrass Prairie. <i>BioScience</i> , 1999, 49, 39.	2.2	600
7	Models, mechanisms and pathways of succession. <i>Botanical Review</i> , The, 1987, 53, 335-371.	1.7	545
8	Productivity Is a Poor Predictor of Plant Species Richness. <i>Science</i> , 2011, 333, 1750-1753.	6.0	463
9	An integrated conceptual framework for long-term social-ecological research. <i>Frontiers in Ecology and the Environment</i> , 2011, 9, 351-357.	1.9	462
10	A framework for assessing ecosystem dynamics in response to chronic resource alterations induced by global change. <i>Ecology</i> , 2009, 90, 3279-3289.	1.5	458
11	ECOLOGY: Ecology for a Crowded Planet. <i>Science</i> , 2004, 304, 1251-1252.	6.0	440
12	Shrub encroachment in North American grasslands: shifts in growth form dominance rapidly alters control of ecosystem carbon inputs. <i>Global Change Biology</i> , 2008, 14, 615-623.	4.2	435
13	The Ecological Concept of Disturbance and Its Expression at Various Hierarchical Levels. <i>Oikos</i> , 1989, 54, 129.	1.2	413
14	Eutrophication weakens stabilizing effects of diversity in natural grasslands. <i>Nature</i> , 2014, 508, 521-525.	13.7	409
15	Grassland productivity limited by multiple nutrients. <i>Nature Plants</i> , 2015, 1, 15080.	4.7	403
16	Fertilization effects on species density and primary productivity in herbaceous plant communities. <i>Oikos</i> , 2000, 89, 428-439.	1.2	390
17	Productivity responses to altered rainfall patterns in a C ₄ -dominated grassland. <i>Oecologia</i> , 2003, 137, 245-251.	0.9	383
18	Woody encroachment decreases diversity across North American grasslands and savannas. <i>Ecology</i> , 2012, 93, 697-703.	1.5	374

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19	Interaction of Disturbances in Tallgrass Prairie: A Field Experiment. <i>Ecology</i> , 1987, 68, 1243-1250.	1.5	330
20	Pulse dynamics and microbial processes in aridland ecosystems. <i>Journal of Ecology</i> , 2008, 96, 413-420.	1.9	330
21	Effect of precipitation variability on net primary production and soil respiration in a Chihuahuan Desert grassland. <i>Global Change Biology</i> , 2011, 17, 1505-1515.	4.2	319
22	Temperature response of soil respiration largely unaltered with experimental warming. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 13797-13802.	3.3	308
23	Experimental Analysis of Intermediate Disturbance and Initial Floristic Composition: Decoupling Cause and Effect. <i>Ecology</i> , 1995, 76, 486-492.	1.5	302
24	Environmental and plant community determinants of species loss following nitrogen enrichment. <i>Ecology Letters</i> , 2007, 10, 596-607.	3.0	293
25	Positive feedback between microclimate and shrub encroachment in the northern Chihuahuan desert. <i>Ecosphere</i> , 2010, 1, 1-11.	1.0	290
26	Conditional vulnerability of plant diversity to atmospheric nitrogen deposition across the United States. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 4086-4091.	3.3	287
27	A hierarchical consideration of causes and mechanisms of succession. <i>Plant Ecology</i> , 1987, 69, 109-114.	1.2	279
28	Coordinated distributed experiments: an emerging tool for testing global hypotheses in ecology and environmental science. <i>Frontiers in Ecology and the Environment</i> , 2013, 11, 147-155.	1.9	237
29	Differential sensitivity to regional-scale drought in six central US grasslands. <i>Oecologia</i> , 2015, 177, 949-957.	0.9	236
30	Altering Rainfall Timing and Quantity in a Mesic Grassland Ecosystem: Design and Performance of Rainfall Manipulation Shelters. <i>Ecosystems</i> , 2000, 3, 308-319.	1.6	235
31	Asymmetric responses of primary productivity to precipitation extremes: A synthesis of grassland precipitation manipulation experiments. <i>Global Change Biology</i> , 2017, 23, 4376-4385.	4.2	231
32	Disturbance Frequency and Community Stability in Native Tallgrass Prairie. <i>American Naturalist</i> , 2000, 155, 311-325.	1.0	228
33	Effects of disturbance on diversity in mixed-grass prairie. <i>Plant Ecology</i> , 1986, 64, 87-94.	1.2	226
34	Drought consistently alters the composition of soil fungal and bacterial communities in grasslands from two continents. <i>Global Change Biology</i> , 2018, 24, 2818-2827.	4.2	221
35	Fire Frequency and Community Heterogeneity in Tallgrass Prairie Vegetation. <i>Ecology</i> , 1992, 73, 2001-2006.	1.5	199
36	Importance of Spatial and Temporal Dynamics in Species Regional Abundance and Distribution. <i>Ecology</i> , 1991, 72, 654-664.	1.5	196

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37	Sensitivity of grassland plant community composition to spatial vs. temporal variation in precipitation. <i>Ecology</i> , 2013, 94, 1687-1696.	1.5	191
38	Aboveground net primary production dynamics in a northern Chihuahuan Desert ecosystem. <i>Oecologia</i> , 2008, 155, 123-132.	0.9	184
39	<scp>codyn</scp>: An <scp>r</scp> package of community dynamics metrics. <i>Methods in Ecology and Evolution</i> , 2016, 7, 1146-1151.	2.2	175
40	A method to determine rates and patterns of variability in ecological communities. <i>Oikos</i> , 2000, 91, 285-293.	1.2	174
41	SCALE-DEPENDENT INTERACTION OF FIRE AND GRAZING ON COMMUNITY HETEROGENEITY IN TALLGRASS PRAIRIE. <i>Ecology</i> , 2006, 87, 2058-2067.	1.5	170
42	Caterpillar Leaf Damage, and the Game of Hide-and-Seek with Birds. <i>Ecology</i> , 1983, 64, 592-602.	1.5	166
43	Biotic mechanisms of community stability shift along a precipitation gradient. <i>Ecology</i> , 2014, 95, 1693-1700.	1.5	161
44	Microbial responses to nitrogen addition in three contrasting grassland ecosystems. <i>Oecologia</i> , 2007, 154, 349-359.	0.9	158
45	Living in an increasingly connected world: a framework for continental-scale environmental science. <i>Frontiers in Ecology and the Environment</i> , 2008, 6, 229-237.	1.9	157
46	SOIL RESOURCES REGULATE PRODUCTIVITY AND DIVERSITY IN NEWLY ESTABLISHED TALLGRASS PRAIRIE. <i>Ecology</i> , 2003, 84, 724-735.	1.5	156
47	Plant community responses to resource availability and heterogeneity during restoration. <i>Oecologia</i> , 2004, 139, 617-629.	0.9	154
48	Earth Stewardship: science for action to sustain the human-earth system. <i>Ecosphere</i> , 2011, 2, art89.	1.0	154
49	A Multiscale, Hierarchical Model of Pulse Dynamics in Arid-Land Ecosystems. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2014, 45, 397-419.	3.8	153
50	Interactive effects of grazing, drought, and fire on grassland plant communities in North America and South Africa. <i>Ecology</i> , 2014, 95, 98-109.	1.5	145
51	Changes in plant community composition, not diversity, during a decade of nitrogen and phosphorus additions drive above-ground productivity in a tallgrass prairie. <i>Journal of Ecology</i> , 2014, 102, 1649-1660.	1.9	145
52	Disturbance Dynamics and Ecological Response: The Contribution of Long-Term Ecological Research. <i>BioScience</i> , 2003, 53, 46.	2.2	143
53	Anthropogenic nitrogen deposition predicts local grassland primary production worldwide. <i>Ecology</i> , 2015, 96, 1459-1465.	1.5	143
54	Vegetation's "microclimate feedbacks in woodland" grassland ecotones. <i>Global Ecology and Biogeography</i> , 2013, 22, 364-379.	2.7	142

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55	A Hierarchical Analysis of Species' Abundance Patterns in Grassland Vegetation. <i>American Naturalist</i> , 1990, 135, 633-648.	1.0	141
56	Shifting species interactions in terrestrial dryland ecosystems under altered water availability and climate change. <i>Biological Reviews</i> , 2012, 87, 563-582.	4.7	141
57	Effects of fire, grazing and topographic variation on vegetation structure in tallgrass prairie. <i>Journal of Vegetation Science</i> , 2012, 23, 563-575.	1.1	141
58	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.	3.3	141
59	Change in dominance determines herbivore effects on plant biodiversity. <i>Nature Ecology and Evolution</i> , 2018, 2, 1925-1932.	3.4	140
60	Asynchrony among local communities stabilises ecosystem function of metacommunities. <i>Ecology Letters</i> , 2017, 20, 1534-1545.	3.0	136
61	Pushing precipitation to the extremes in distributed experiments: recommendations for simulating wet and dry years. <i>Global Change Biology</i> , 2017, 23, 1774-1782.	4.2	132
62	Ecological science and sustainability for the 21st century. <i>Frontiers in Ecology and the Environment</i> , 2005, 3, 4-11.	1.9	127
63	Looking deeper into the soil: biophysical controls and seasonal lags of soil CO ₂ production and efflux. <i>Ecological Applications</i> , 2010, 20, 1569-1582.	1.8	120
64	New Eyes on the World: Advanced Sensors for Ecology. <i>BioScience</i> , 2009, 59, 385-397.	2.2	119
65	Past, Present, and Future Roles of Long-Term Experiments in the LTER Network. <i>BioScience</i> , 2012, 62, 377-389.	2.2	116
66	Effects of experimental rainfall manipulations on Chihuahuan Desert grassland and shrubland plant communities. <i>Oecologia</i> , 2013, 172, 1117-1127.	0.9	115
67	Altered Rainfall Patterns, Gas Exchange, and Growth in Grasses and Forbs. <i>International Journal of Plant Sciences</i> , 2002, 163, 549-557.	0.6	113
68	Precipitation variability and fire influence the temporal dynamics of soil CO ₂ efflux in an arid grassland. <i>Global Change Biology</i> , 2012, 18, 1401-1411.	4.2	113
69	Effects of Urine Deposition on Small-Scale Patch Structure in Prairie Vegetation. <i>Ecology</i> , 1995, 76, 1195-1205.	1.5	110
70	Do individual plant species show predictable responses to nitrogen addition across multiple experiments?. <i>Oikos</i> , 2005, 110, 547-555.	1.2	110
71	Sensitivity of primary production to precipitation across the United States. <i>Ecology Letters</i> , 2020, 23, 527-536.	3.0	109
72	Shrub Invasion Decreases Diversity and Alters Community Stability in Northern Chihuahuan Desert Plant Communities. <i>PLoS ONE</i> , 2008, 3, e2332.	1.1	104

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73	Post-Fire Resource Redistribution in Desert Grasslands: A Possible Negative Feedback on Land Degradation. <i>Ecosystems</i> , 2009, 12, 434-444.	1.6	104
74	EFFECTS OF ORGANISMAL AND DISTANCE SCALING ON ANALYSIS OF SPECIES DISTRIBUTION AND ABUNDANCE. , 1997, 7, 543-551.		103
75	Above- and belowground responses to nitrogen addition in a Chihuahuan Desert grassland. <i>Oecologia</i> , 2012, 169, 177-185.	0.9	103
76	Succession in grasslands: Thirty-two years of change in a central Oklahoma tallgrass prairie. <i>Plant Ecology</i> , 1983, 51, 181-190.	1.2	100
77	The Seedling Regeneration Niche: Habitat Structure of Tree Seedlings in an Oak-Pine Forest. <i>Oikos</i> , 1987, 48, 89.	1.2	95
78	Response of an aridland ecosystem to interannual climate variability and prolonged drought. <i>Landscape Ecology</i> , 2007, 22, 897-910.	1.9	95
79	Gradient Models, Gradient Analysis, and Hierarchical Structure in Plant Communities. <i>Oikos</i> , 1997, 78, 23.	1.2	91
80	Grassland to shrubland state transitions enhance carbon sequestration in the northern Chihuahuan Desert. <i>Global Change Biology</i> , 2015, 21, 1226-1235.	4.2	91
81	Incorporating clonal growth form clarifies the role of plant height in response to nitrogen addition. <i>Oecologia</i> , 2012, 169, 1053-1062.	0.9	90
82	RANK CLOCKS AND PLANT COMMUNITY DYNAMICS. <i>Ecology</i> , 2008, 89, 3534-3541.	1.5	89
83	The hierarchical continuum concept. <i>Journal of Vegetation Science</i> , 1993, 4, 149-156.	1.1	88
84	Abundance of introduced species at home predicts abundance away in herbaceous communities. <i>Ecology Letters</i> , 2011, 14, 274-281.	3.0	88
85	New opportunities in ecological sensing using wireless sensor networks. <i>Frontiers in Ecology and the Environment</i> , 2006, 4, 402-407.	1.9	87
86	Integrating Patch and Boundary Dynamics to Understand and Predict Biotic Transitions at Multiple Scales. <i>Landscape Ecology</i> , 2006, 21, 19-33.	1.9	87
87	Differential effects of extreme drought on production and respiration: synthesis and modeling analysis. <i>Biogeosciences</i> , 2014, 11, 621-633.	1.3	87
88	Atmospheric nitrogen deposition in the northern Chihuahuan desert: Temporal trends and potential consequences. <i>Journal of Arid Environments</i> , 2007, 68, 640-651.	1.2	86
89	Effects of Scale and Disturbance on Rates of Immigration and Extinction of Species in Prairies. <i>Oikos</i> , 1992, 63, 273.	1.2	85
90	Shifts in plant functional composition following long-term drought in grasslands. <i>Journal of Ecology</i> , 2019, 107, 2133-2148.	1.9	85

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91	Complex seasonal cycle of ecohydrology in the Southwest United States. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	84
92	Regional trends and local variability in monsoon precipitation in the northern Chihuahuan Desert, USA. <i>Journal of Arid Environments</i> , 2014, 103, 63-70.	1.2	84
93	Exposure to predicted precipitation patterns decreases population size and alters community structure of cyanobacteria in biological soil crusts from the Chihuahuan Desert. <i>Environmental Microbiology</i> , 2018, 20, 259-269.	1.8	83
94	Stability of tallgrass prairie during a 19-yr increase in growing season precipitation. <i>Functional Ecology</i> , 2012, 26, 1450-1459.	1.7	81
95	Climatic controls of aboveground net primary production in semi-arid grasslands along a latitudinal gradient portend low sensitivity to warming. <i>Oecologia</i> , 2015, 177, 959-969.	0.9	80
96	A comprehensive approach to analyzing community dynamics using rank abundance curves. <i>Ecosphere</i> , 2019, 10, e02881.	1.0	79
97	Soil Heterogeneity Effects on Tallgrass Prairie Community Heterogeneity: An Application of Ecological Theory to Restoration Ecology. <i>Restoration Ecology</i> , 2005, 13, 413-424.	1.4	78
98	General destabilizing effects of eutrophication on grassland productivity at multiple spatial scales. <i>Nature Communications</i> , 2020, 11, 5375.	5.8	75
99	Generality in ecology: testing North American grassland rules in South African savannas. <i>Frontiers in Ecology and the Environment</i> , 2004, 2, 483-491.	1.9	74
100	Can current moisture responses predict soil CO ₂ efflux under altered precipitation regimes? A synthesis of manipulation experiments. <i>Biogeosciences</i> , 2014, 11, 2991-3013.	1.3	74
101	Relationships of Vegetation and Environment in Buffalo Wallows. <i>American Midland Naturalist</i> , 1984, 112, 178.	0.2	73
102	Climate sensitivity functions and net primary production: A framework for incorporating climate mean and variability. <i>Ecology</i> , 2018, 99, 576-582.	1.5	73
103	Regional grassland productivity responses to precipitation during multiyear above- and below-average rainfall periods. <i>Global Change Biology</i> , 2018, 24, 1935-1951.	4.2	71
104	Plant community response to loss of large herbivores differs between North American and South African savanna grasslands. <i>Ecology</i> , 2014, 95, 808-816.	1.5	70
105	Effect of local and regional processes on plant species richness in tallgrass prairie. <i>Oikos</i> , 2002, 99, 571-579.	1.2	69
106	Skills and Knowledge for Data-Intensive Environmental Research. <i>BioScience</i> , 2017, 67, 546-557.	2.2	68
107	Legacy effects of a regional drought on aboveground net primary production in six central US grasslands. <i>Plant Ecology</i> , 2018, 219, 505-515.	0.7	66
108	Fire and grazing in a mesic tallgrass prairie: impacts on plant species and functional traits. <i>Ecology</i> , 2010, 91, 1651-1659.	1.5	63

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109	Resolving the Dust Bowl paradox of grassland responses to extreme drought. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 22249-22255.	3.3	63
110	Species reordering, not changes in richness, drives long-term dynamics in grassland communities. Ecology Letters, 2017, 20, 1556-1565.	3.0	62
111	Increasing effects of chronic nutrient enrichment on plant diversity loss and ecosystem productivity over time. Ecology, 2021, 102, e03218.	1.5	62
112	Feedbacks between fires and wind erosion in heterogeneous arid lands. Journal of Geophysical Research, 2007, 112, .	3.3	61
113	Form and function of grass ring patterns in arid grasslands: the role of abiotic controls. Oecologia, 2008, 158, 545-555.	0.9	61
114	A test of two mechanisms proposed to optimize grassland aboveground primary productivity in response to grazing. Journal of Plant Ecology, 2012, 5, 357-365.	1.2	59
115	Habitat Relationships of Wood Warblers (Parulidae) in Northern Central Minnesota. Oikos, 1982, 39, 50.	1.2	58
116	Patch Structure in Tallgrass Prairies: Dynamics of Satellite Species. Oikos, 1990, 57, 229.	1.2	58
117	Influence of grazing and fire frequency on small-scale plant community structure and resource variability in native tallgrass prairie. Oikos, 2008, 117, 859-866.	1.2	58
118	Ecosystem response to nutrient enrichment across an urban airshed in the Sonoran Desert. , 2011, 21, 640-660.		58
119	The interactive effects of press/pulse intensity and duration on regime shifts at multiple scales. Ecological Monographs, 2017, 87, 198-218.	2.4	58
120	Disturbances in tallgrass prairie: local and regional effects on community heterogeneity. Landscape Ecology, 1992, 7, 243-251.	1.9	57
121	Soil net nitrogen mineralisation across global grasslands. Nature Communications, 2019, 10, 4981.	5.8	57
122	A hierarchical consideration of causes and mechanisms of succession. , 1987, , 109-114.		57
123	BOTTOM-UP REGULATION OF PLANT COMMUNITY STRUCTURE IN AN ARIDLAND ECOSYSTEM. Ecology, 2006, 87, 2746-2754.	1.5	56
124	Temporal heterogeneity increases with spatial heterogeneity in ecological communities. Ecology, 2018, 99, 858-865.	1.5	56
125	Rapid recovery of ecosystem function following extreme drought in a South African savanna grassland. Ecology, 2020, 101, e02983.	1.5	55
126	Plant community response to loss of large herbivores: comparing consequences in a South African and a North American grassland. Biodiversity and Conservation, 2009, 18, 2327-2342.	1.2	54

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127	Long-Term Ecological Research in a Human-Dominated World. <i>BioScience</i> , 2012, 62, 342-353.	2.2	53
128	Aboveground production and species richness of annuals in Chihuahuan Desert grassland and shrubland plant communities. <i>Journal of Arid Environments</i> , 2010, 74, 378-385.	1.2	52
129	Potential vulnerability of 348 herbaceous species to atmospheric deposition of nitrogen and sulfur in the United States. <i>Nature Plants</i> , 2019, 5, 697-705.	4.7	52
130	Seed Predation, Seed Dispersal, and Disturbance in Grasslands: A Comment. <i>American Naturalist</i> , 1985, 125, 866-872.	1.0	51
131	Controls of Aboveground Net Primary Production in Mesic Savanna Grasslands: An Inter-Hemispheric Comparison. <i>Ecosystems</i> , 2009, 12, 982-995.	1.6	51
132	Relative contributions of neutral and niche-based processes to the structure of a desert grassland grasshopper community. <i>Oecologia</i> , 2009, 161, 791-800.	0.9	51
133	Habitat relationships and survivorship of tree seedlings in hemlock-hardwood forest. <i>Canadian Journal of Botany</i> , 1990, 68, 790-797.	1.2	50
134	The influence of <i>Prosopis</i> canopies on understorey vegetation: Effects of landscape position. <i>Journal of Vegetation Science</i> , 2003, 14, 743-750.	1.1	50
135	Vegetation change: a reunifying concept in plant ecology. <i>Perspectives in Plant Ecology, Evolution and Systematics</i> , 2005, 7, 69-76.	1.1	50
136	Press-pulse interactions: effects of warming, N deposition, altered winter precipitation, and fire on desert grassland community structure and dynamics. <i>Global Change Biology</i> , 2017, 23, 1095-1108.	4.2	49
137	Geographic Variation in Habitat Structure of the Black-Throated Green Warbler (<i>Dendroica virens</i>). <i>Auk</i> , 1983, 100, 382-389.	0.7	48
138	Experimental analysis of patch dynamics and community heterogeneity in tallgrass prairie. <i>Plant Ecology</i> , 1989, 85, 57-66.	1.2	48
139	Global environmental change and the nature of aboveground net primary productivity responses: insights from long-term experiments. <i>Oecologia</i> , 2015, 177, 935-947.	0.9	48
140	Altered rainfall patterns increase forb abundance and richness in native tallgrass prairie. <i>Scientific Reports</i> , 2016, 6, 20120.	1.6	48
141	The core-satellite species hypothesis provides a theoretical basis for Grime's classification of dominant, subordinate, and transient species. <i>Journal of Ecology</i> , 1999, 87, 1064-1067.	1.9	47
142	Experimental analysis of patch dynamics in tallgrass prairie plant communities. <i>Journal of Vegetation Science</i> , 1993, 4, 157-162.	1.1	45
143	FEEDBACK LOOPS IN ECOLOGICAL HIERARCHIES FOLLOWING URINE DEPOSITION IN TALLGRASS PRAIRIE. <i>Ecology</i> , 2001, 82, 1319-1329.	1.5	45
144	Learning to roll with the punches: adaptive experimentation in human-dominated systems. <i>Frontiers in Ecology and the Environment</i> , 2004, 2, 467-474.	1.9	45

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145	Soil enzyme responses to varying rainfall regimes in Chihuahuan Desert soils. <i>Ecosphere</i> , 2015, 6, 1-10.	1.0	45
146	Responses to fire differ between South African and North American grassland communities. <i>Journal of Vegetation Science</i> , 2014, 25, 793-804.	1.1	44
147	Environmental heterogeneity has a weak effect on diversity during community assembly in tallgrass prairie. <i>Ecological Monographs</i> , 2016, 86, 94-106.	2.4	44
148	Long-Term Dynamics and Hotspots of Change in a Desert Grassland Plant Community. <i>American Naturalist</i> , 2015, 185, E30-E43.	1.0	43
149	Nutrient additions cause divergence of tallgrass prairie plant communities resulting in loss of ecosystem stability. <i>Journal of Ecology</i> , 2016, 104, 1478-1487.	1.9	43
150	Species asynchrony stabilises productivity under extreme drought across Northern China grasslands. <i>Journal of Ecology</i> , 2021, 109, 1665-1675.	1.9	42
151	Differential Response of Woody and Herbaceous Species to Summer and Winter Burning in an Oklahoma Grassland. <i>Southwestern Naturalist</i> , 1982, 27, 55.	0.1	41
152	The Effect of Early Spring Burning on Vegetation in Buffalo Wallows. <i>Bulletin of the Torrey Botanical Club</i> , 1983, 110, 474.	0.6	41
153	Changes in spatial variance during a grassland to shrubland state transition. <i>Journal of Ecology</i> , 2017, 105, 750-760.	1.9	41
154	Can biological invasions induce desertification?. <i>New Phytologist</i> , 2009, 181, 512-515.	3.5	40
155	Mechanisms of shrub encroachment into Northern Chihuahuan Desert grasslands and impacts of climate change investigated using a cellular automata model. <i>Advances in Water Resources</i> , 2016, 91, 46-62.	1.7	38
156	Spatial heterogeneity in species composition constrains plant community responses to herbivory and fertilisation. <i>Ecology Letters</i> , 2018, 21, 1364-1371.	3.0	38
157	Fire frequency, state change and hysteresis in tallgrass prairie. <i>Ecology Letters</i> , 2021, 24, 636-647.	3.0	38
158	Succession and fluctuation in Artemisia dominated grassland. <i>Plant Ecology</i> , 1988, 73, 89-99.	1.2	37
159	Small-scale patch structure in North American and South African grasslands responds differently to fire and grazing. <i>Landscape Ecology</i> , 2013, 28, 1293-1306.	1.9	37
160	Experimental manipulation of natural plant communities. <i>Trends in Ecology and Evolution</i> , 1994, 9, 94-98.	4.2	35
161	Genetic parameter estimates in a clonally replicated progeny test of teak (<i>Tectona grandis</i> Linn. f.). <i>Tree Genetics and Genomes</i> , 2008, 4, 237-245.	0.6	35
162	Interactions Between Soil Erosion Processes and Fires: Implications for the Dynamics of Fertility Islands. <i>Rangeland Ecology and Management</i> , 2010, 63, 267-274.	1.1	35

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163	Rapid plant community responses during the summer monsoon to nighttime warming in a northern Chihuahuan Desert grassland. <i>Journal of Arid Environments</i> , 2010, 74, 611-617.	1.2	35
164	Direct and indirect effects of temperature and precipitation on alpine seed banks in the Tibetan Plateau. <i>Ecological Applications</i> , 2020, 30, e02096.	1.8	35
165	Plant traits and soil fertility mediate productivity losses under extreme drought in C ₃ grasslands. <i>Ecology</i> , 2021, 102, e03465.	1.5	35
166	Precipitation increases the abundance of some groups of root-associated fungal endophytes in a semiarid grassland. <i>Ecosphere</i> , 2011, 2, art50.	1.0	34
167	Cost Implications of Carbon Capture and Storage for the Coal Power Plants in India. <i>Energy Procedia</i> , 2014, 54, 431-438.	1.8	34
168	The ecological role of small rainfall events in a desert grassland. <i>Ecohydrology</i> , 2015, 8, 1614-1622.	1.1	34
169	Is a drought a drought in grasslands? Productivity responses to different types of drought. <i>Oecologia</i> , 2021, 197, 1017-1026.	0.9	34
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182	Variation in monsoon precipitation drives spatial and temporal patterns of <i>Larrea tridentata</i> growth in the Sonoran Desert. <i>Functional Ecology</i> , 2012, 26, 750-758.	1.7	29
183	Nitrogen addition amplifies the nonlinear drought response of grassland productivity to extended growing season droughts. <i>Ecology</i> , 2021, 102, e03483.	1.5	28
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