

David Tilman

List of Publications by Citations

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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.

187
papers

79,264
citations

97
h-index

194
g-index

194
ext. papers

92,191
ext. citations

16.2
avg, IF

8.25
L-index

#	Paper	IF	Citations
187	Agricultural sustainability and intensive production practices. <i>Nature</i> , 2002 , 418, 671-7	50.4	4610
186	Solutions for a cultivated planet. <i>Nature</i> , 2011 , 478, 337-42	50.4	4351
185	Global food demand and the sustainable intensification of agriculture. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 20260-4	11.5	3736
184	Biodiversity loss and its impact on humanity. <i>Nature</i> , 2012 , 486, 59-67	50.4	3613
183	The metacommunity concept: a framework for multi-scale community ecology. <i>Ecology Letters</i> , 2004 , 7, 601-613	10	3226
182	Biodiversity and ecosystem functioning: current knowledge and future challenges. <i>Science</i> , 2001 , 294, 804-8	33.3	2942
181	Food in the Anthropocene: the EAT-Lancet Commission on healthy diets from sustainable food systems. <i>Lancet, The</i> , 2019 , 393, 447-492	40	2664
180	Land clearing and the biofuel carbon debt. <i>Science</i> , 2008 , 319, 1235-8	33.3	2663
179	Forecasting agriculturally driven global environmental change. <i>Science</i> , 2001 , 292, 281-4	33.3	2520
178	The Influence of Functional Diversity and Composition on Ecosystem Processes. <i>Science</i> , 1997 , 277, 1300-1302	33.3	1999
177	Environmental, economic, and energetic costs and benefits of biodiesel and ethanol biofuels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 11206-10	11.5	1918
176	Habitat destruction and the extinction debt. <i>Nature</i> , 1994 , 371, 65-66	50.4	1905
175	Productivity and sustainability influenced by biodiversity in grassland ecosystems. <i>Nature</i> , 1996 , 379, 718-720	50.4	1848
174	Competition and Biodiversity in Spatially Structured Habitats. <i>Ecology</i> , 1994 , 75, 2-16	4.6	1790
173	Global diets link environmental sustainability and human health. <i>Nature</i> , 2014 , 515, 518-22	50.4	1602
172	Diversity and productivity in a long-term grassland experiment. <i>Science</i> , 2001 , 294, 843-5	33.3	1565
171	Biodiversity and stability in grasslands. <i>Nature</i> , 1994 , 367, 363-365	50.4	1520

170	Carbon-negative biofuels from low-input high-diversity grassland biomass. <i>Science</i> , 2006 , 314, 1598-600	33.3	1303
169	Biodiversity and ecosystem stability in a decade-long grassland experiment. <i>Nature</i> , 2006 , 441, 629-32	50.4	1254
168	Energy. Beneficial biofuels--the food, energy, and environment trilemma. <i>Science</i> , 2009 , 325, 270-1	33.3	1166
167	THE ECOLOGICAL CONSEQUENCES OF CHANGES IN BIODIVERSITY: A SEARCH FOR GENERAL PRINCIPLES. <i>Ecology</i> , 1999 , 80, 1455-1474	4.6	1115
166	Niche tradeoffs, neutrality, and community structure: a stochastic theory of resource competition, invasion, and community assembly. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 10854-61	11.5	1011
165	Biodiversity: Population Versus Ecosystem Stability. <i>Ecology</i> , 1995 , 77, 350-363	4.6	987
164	Plant diversity and ecosystem productivity: theoretical considerations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1997 , 94, 1857-61	11.5	946
163	Options for keeping the food system within environmental limits. <i>Nature</i> , 2018 , 562, 519-525	50.4	925
162	High plant diversity is needed to maintain ecosystem services. <i>Nature</i> , 2011 , 477, 199-202	50.4	907
161	COMMUNITY INVASIBILITY, RECRUITMENT LIMITATION, AND GRASSLAND BIODIVERSITY. <i>Ecology</i> , 1997 , 78, 81-92	4.6	888
160	Biodiversity as a barrier to ecological invasion. <i>Nature</i> , 2002 , 417, 636-8	50.4	821
159	Biodiversity and Ecosystem Functioning. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2014 , 45, 471-493	13.5	819
158	PLANT DIVERSITY, SOIL MICROBIAL COMMUNITIES, AND ECOSYSTEM FUNCTION: ARE THERE ANY LINKS?. <i>Ecology</i> , 2003 , 84, 2042-2050	4.6	808
157	Global environmental impacts of agricultural expansion: the need for sustainable and efficient practices. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999 , 96, 5995-6000	11.5	807
156	Biotic Control over the Functioning of Ecosystems. <i>Science</i> , 1997 , 277, 500-504	33.3	804
155	Secondary Succession and the Pattern of Plant Dominance Along Experimental Nitrogen Gradients. <i>Ecological Monographs</i> , 1987 , 57, 189-214	9	767
154	Loss of plant species after chronic low-level nitrogen deposition to prairie grasslands. <i>Nature</i> , 2008 , 451, 712-5	50.4	650
153	Biodiversity increases the resistance of ecosystem productivity to climate extremes. <i>Nature</i> , 2015 , 526, 574-7	50.4	647

152	Effects of plant species richness on invasion dynamics, disease outbreaks, insect abundances and diversity. <i>Ecology Letters</i> , 1999 , 2, 286-293	10	626
151	Species effects on nitrogen cycling: a test with perennial grasses. <i>Oecologia</i> , 1990 , 84, 433-441	2.9	575
150	Impacts of biodiversity loss escalate through time as redundancy fades. <i>Science</i> , 2012 , 336, 589-92	33.3	518
149	Resource Competition and Community Structure. (MPB-17), Volume 17 1982 ,		488
148	Plant functional composition influences rates of soil carbon and nitrogen accumulation. <i>Journal of Ecology</i> , 2008 , 96, 314-322	6	479
147	Plant diversity enhances ecosystem responses to elevated CO ₂ and nitrogen deposition. <i>Nature</i> , 2001 , 410, 809-12	50.4	469
146	Experimental tests of the dependence of arthropod diversity on plant diversity. <i>American Naturalist</i> , 1998 , 152, 738-50	3.7	435
145	Future threats to biodiversity and pathways to their prevention. <i>Nature</i> , 2017 , 546, 73-81	50.4	417
144	Comparative analysis of environmental impacts of agricultural production systems, agricultural input efficiency, and food choice. <i>Environmental Research Letters</i> , 2017 , 12, 064016	6.2	404
143	DYNAMICS OF SOIL NITROGEN AND CARBON ACCUMULATION FOR 61 YEARS AFTER AGRICULTURAL ABANDONMENT. <i>Ecology</i> , 2000 , 81, 88-98	4.6	393
142	Grassland species loss resulting from reduced niche dimension. <i>Nature</i> , 2007 , 446, 791-3	50.4	383
141	Nutrient enrichment, biodiversity loss, and consequent declines in ecosystem productivity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 11911-6	11.5	371
140	HERBIVORE EFFECTS ON PLANT AND NITROGEN DYNAMICS IN OAK SAVANNA. <i>Ecology</i> , 1998 , 79, 165-177	17.8	353
139	Diversity decreases invasion via both sampling and complementarity effects. <i>Ecology Letters</i> , 2005 , 8, 604-611	10	342
138	Competition Among Grasses Along a Nitrogen Gradient: Initial Conditions and Mechanisms of Competition. <i>Ecological Monographs</i> , 1993 , 63, 199-229	9	333
137	Plant species loss decreases arthropod diversity and shifts trophic structure. <i>Ecology Letters</i> , 2009 , 12, 1029-39	10	329
136	Plant ecology. Anthropogenic environmental changes affect ecosystem stability via biodiversity. <i>Science</i> , 2015 , 348, 336-40	33.3	322
135	From selection to complementarity: shifts in the causes of biodiversity-productivity relationships in a long-term biodiversity experiment. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2007 , 274, 871-6	4.4	313

134	EFFECTS OF GRASSLAND PLANT SPECIES DIVERSITY, ABUNDANCE, AND COMPOSITION ON FOLIAR FUNGAL DISEASE. <i>Ecology</i> , 2002 , 83, 1713-1726	4.6	303
133	Human-caused environmental change: impacts on plant diversity and evolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001 , 98, 5433-40	11.5	298
132	Biodiversity impacts ecosystem productivity as much as resources, disturbance, or herbivory. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 10394-7	11.5	297
131	Phylogenetic diversity promotes ecosystem stability. <i>Ecology</i> , 2012 , 93, S223-S233	4.6	285
130	Functional traits, productivity and effects on nitrogen cycling of 33 grassland species. <i>Functional Ecology</i> , 2002 , 16, 563-574	5.6	285
129	Plant Traits and Resource Reduction For Five Grasses Growing on a Nitrogen Gradient. <i>Ecology</i> , 1991 , 72, 685-700	4.6	275
128	Nexus approaches to global sustainable development. <i>Nature Sustainability</i> , 2018 , 1, 466-476	22.1	260
127	Dynamic and static views of succession: Testing the descriptive power of the chronosequence approach. <i>Plant Ecology</i> , 2000 , 146, 1-10	1.7	248
126	Climate change and health costs of air emissions from biofuels and gasoline. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 2077-82	11.5	247
125	Do species and functional groups differ in acquisition and use of C, N and water under varying atmospheric CO ₂ and N availability regimes? A field test with 16 grassland species. <i>New Phytologist</i> , 2001 , 150, 435-448	9.8	217
124	Dynamics of vesicular-arbuscular mycorrhizae during old field succession. <i>Oecologia</i> , 1991 , 86, 349-358	2.9	211
123	Old-Field Succession on a Minnesota Sand Plain. <i>Ecology</i> , 1987 , 68, 12-26	4.6	208
122	Multiple health and environmental impacts of foods. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 23357-23362	11.5	205
121	Drought and biodiversity in Grasslands. <i>Oecologia</i> , 1992 , 89, 257-264	2.9	201
120	Bioenergy and Wildlife: Threats and Opportunities for Grassland Conservation. <i>BioScience</i> , 2009 , 59, 767-777	5.7	184
119	Emerging human infectious diseases and the links to global food production. <i>Nature Sustainability</i> , 2019 , 2, 445-456	22.1	181
118	The effects of long-term nitrogen loading on grassland insect communities. <i>Oecologia</i> , 2000 , 124, 73-84	2.9	175
117	Root depth distribution and the diversity-productivity relationship in a long-term grassland experiment. <i>Ecology</i> , 2013 , 94, 787-793	4.6	169

116	Insect species diversity, abundance and body size relationships. <i>Nature</i> , 1996 , 380, 704-706	50.4	168
115	Mechanisms responsible for the positive diversity-productivity relationship in Minnesota grasslands. <i>Ecology Letters</i> , 2004 , 7, 661-668	10	159
114	Seed limitation and the regulation of community structure in oak savanna grassland. <i>Journal of Ecology</i> , 2003 , 91, 999-1007	6	159
113	Variation in growth rate and ecophysiology among 34 grassland and savanna species under contrasting N supply: a test of functional group differences. <i>New Phytologist</i> , 2003 , 157, 617-631	9.8	159
112	National food production stabilized by crop diversity. <i>Nature</i> , 2019 , 571, 257-260	50.4	157
111	Allocation and the Transient Dynamics of Succession on Poor Soils. <i>Ecology</i> , 1990 , 71, 1144-1155	4.6	157
110	Carbon and nitrogen cycling during old-field succession: Constraints on plant and microbial biomass. <i>Biogeochemistry</i> , 1990 , 11, 111	3.8	153
109	Global food system emissions could preclude achieving the 1.5°C and 2°C climate change targets. <i>Science</i> , 2020 , 370, 705-708	33.3	152
108	Oscillations and chaos in the dynamics of a perennial grass. <i>Nature</i> , 1991 , 353, 653-655	50.4	144
107	Multiple facets of biodiversity drive the diversity-stability relationship. <i>Nature Ecology and Evolution</i> , 2018 , 2, 1579-1587	12.3	140
106	QUADRATIC VARIATION IN OLD-FIELD SPECIES RICHNESS ALONG GRADIENTS OF DISTURBANCE AND NITROGEN. <i>Ecology</i> , 2002 , 83, 492-504	4.6	136
105	Competition and nutrient kinetics along a temperature gradient: An experimental test of a mechanistic approach to niche theory ¹ . <i>Limnology and Oceanography</i> , 1981 , 26, 1020-1033	4.8	131
104	Low biodiversity state persists two decades after cessation of nutrient enrichment. <i>Ecology Letters</i> , 2013 , 16, 454-60	10	125
103	Linkages between plant functional composition, fine root processes and potential soil N mineralization rates. <i>Journal of Ecology</i> , 2009 , 97, 48-56	6	120
102	Soil carbon sequestration in prairie grasslands increased by chronic nitrogen addition. <i>Ecology</i> , 2012 , 93, 2030-6	4.6	117
101	Plant diversity controls arthropod biomass and temporal stability. <i>Ecology Letters</i> , 2012 , 15, 1457-64	10	116
100	Pocket gophers (<i>Geomys bursarius</i>), vegetation, and soil nitrogen along a successional sere in east central Minnesota. <i>Oecologia</i> , 1987 , 72, 178-184	2.9	114
99	Plant diversity effects on grassland productivity are robust to both nutrient enrichment and drought. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2016 , 371,	5.8	114

98	Ecological Experimentation: Strengths and Conceptual Problems 1989 , 136-157		113
97	Plant spectral diversity integrates functional and phylogenetic components of biodiversity and predicts ecosystem function. <i>Nature Ecology and Evolution</i> , 2018 , 2, 976-982	12.3	113
96	Interactive effects of fertilization and disturbance on community structure and resource availability in an old-field plant community. <i>Oecologia</i> , 1991 , 88, 61-71	2.9	110
95	FIRE SUPPRESSION AND ECOSYSTEM CARBON STORAGE. <i>Ecology</i> , 2000 , 81, 2680-2685	4.6	108
94	Plant diversity drives soil microbial biomass carbon in grasslands irrespective of global environmental change factors. <i>Global Change Biology</i> , 2015 , 21, 4076-85	11.4	105
93	Soil carbon sequestration accelerated by restoration of grassland biodiversity. <i>Nature Communications</i> , 2019 , 10, 718	17.4	104
92	Plant succession and gopher disturbance along an experimental gradient. <i>Oecologia</i> , 1983 , 60, 285-292	2.9	101
91	Diversity of plant evolutionary lineages promotes arthropod diversity. <i>Ecology Letters</i> , 2012 , 15, 1308-1317		94
90	ECOLOGY:Diversity and Production in European Grasslands. <i>Science</i> , 1999 , 286, 1099-1100	33.3	92
89	Soil fertility increases with plant species diversity in a long-term biodiversity experiment. <i>Oecologia</i> , 2008 , 158, 85-93	2.9	90
88	Species richness, but not phylogenetic diversity, influences community biomass production and temporal stability in a re-examination of 16 grassland biodiversity studies. <i>Functional Ecology</i> , 2015 , 29, 615-626	5.6	88
87	Biodiversity and decomposition in experimental grassland ecosystems. <i>Oecologia</i> , 2001 , 126, 429-433	2.9	84
86	Biodiversity and Ecosystem Properties. <i>Science</i> , 1997 , 278, 1865c-1869	33.3	83
85	Long-term oscillations in grassland productivity induced by drought. <i>Ecology Letters</i> , 2002 , 5, 110-120	10	81
84	Responses of Legumes to Herbivores and Nutrients During Succession on a Nitrogen-Poor Soil. <i>Ecology</i> , 1995 , 76, 2648-2655	4.6	79
83	DOES METABOLIC THEORY APPLY TO COMMUNITY ECOLOGY? ITS A MATTER OF SCALE. <i>Ecology</i> , 2004 , 85, 1797-1799	4.6	76
82	Little bluestem litter dynamics in Minnesota old fields. <i>Oecologia</i> , 1987 , 72, 327-330	2.9	73
81	Asynchrony among local communities stabilises ecosystem function of metacommunities. <i>Ecology Letters</i> , 2017 , 20, 1534-1545	10	72

80	Resource limitation in a competitive context determines complex plant responses to experimental resource additions. <i>Ecology</i> , 2013 , 94, 2505-17	4.6	70
79	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	11.5	69
78	Abundance, diversity and body size: patterns from a grassland arthropod community. <i>Journal of Animal Ecology</i> , 1999 , 68, 824-835	4.7	69
77	BIOLOGICAL WEED CONTROL VIA NUTRIENT COMPETITION: POTASSIUM LIMITATION OF DANDELIONS 1999 , 9, 103-111		68
76	Shifting grassland plant community structure drives positive interactive effects of warming and diversity on aboveground net primary productivity. <i>Global Change Biology</i> , 2016 , 22, 741-9	11.4	62
75	Diversity-dependent temporal divergence of ecosystem functioning in experimental ecosystems. <i>Nature Ecology and Evolution</i> , 2017 , 1, 1639-1642	12.3	60
74	Nitrogen mineralization and nitrification in four Minnesota old fields. <i>Oecologia</i> , 1987 , 71, 481-485	2.9	59
73	Resource availability underlies the plant-fungal diversity relationship in a grassland ecosystem. <i>Ecology</i> , 2018 , 99, 204-216	4.6	59
72	ECOLOGY:Enhanced: Diversity by Default. <i>Science</i> , 1999 , 283, 495-496	33.3	52
71	The economic value of grassland species for carbon storage. <i>Science Advances</i> , 2017 , 3, e1601880	14.3	49
70	Traits linked with species invasiveness and community invasibility vary with time, stage and indicator of invasion in a long-term grassland experiment. <i>Ecology Letters</i> , 2019 , 22, 593-604	10	49
69	Interspecific competition among grasshoppers and their effect on plant abundance in experimental field environments. <i>Oecologia</i> , 1992 , 89, 524-532	2.9	47
68	Deficits of biodiversity and productivity linger a century after agricultural abandonment. <i>Nature Ecology and Evolution</i> , 2019 , 3, 1533-1538	12.3	43
67	Seasonal Variation in the NDVI Species Richness Relationship in a Prairie Grassland Experiment (Cedar Creek). <i>Remote Sensing</i> , 2016 , 8, 128	5	42
66	Air-quality-related health damages of maize. <i>Nature Sustainability</i> , 2019 , 2, 397-403	22.1	41
65	Diversification, biotic interchange, and the universal trade-off hypothesis. <i>American Naturalist</i> , 2011 , 178, 355-71	3.7	41
64	Range contraction enables harvesting to extinction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 3945-3950	11.5	40
63	Invasions of equilibria: tests of resource competition using two species of algae. <i>Oecologia</i> , 1984 , 61, 197-200	2.9	39

62	Sustainable intensification of high-diversity biomass production for optimal biofuel benefits. <i>Nature Sustainability</i> , 2018 , 1, 686-692	22.1	39
61	Food webs obscure the strength of plant diversity effects on primary productivity. <i>Ecology Letters</i> , 2017 , 20, 505-512	10	38
60	Selective herbivory on a nitrogen fixing legume (<i>Lathyrus venosus</i>) influences productivity and ecosystem nitrogen pools in an oak savanna. <i>Ecoscience</i> , 2000 , 7, 166-174	1.1	36
59	Introduced species that overcome life history tradeoffs can cause native extinctions. <i>Nature Communications</i> , 2018 , 9, 2131	17.4	36
58	Climate warming promotes species diversity, but with greater taxonomic redundancy, in complex environments. <i>Science Advances</i> , 2017 , 3, e1700866	14.3	35
57	Long-lasting effects on nitrogen cycling 12 years after treatments cease despite minimal long-term nitrogen retention. <i>Global Change Biology</i> , 2009 , 15, 1755-1766	11.4	35
56	Tree diversity, tree height and environmental harshness in eastern and western North America. <i>Ecology Letters</i> , 2016 , 19, 743-51	10	33
55	The results of biodiversity-ecosystem functioning experiments are realistic. <i>Nature Ecology and Evolution</i> , 2020 , 4, 1485-1494	12.3	31
54	The Diet, Health, and Environment Trilemma. <i>Annual Review of Environment and Resources</i> , 2018 , 43, 109-134	17.2	31
53	Forbs, grasses, and grassland fire behaviour. <i>Journal of Ecology</i> , 2018 , 106, 1983-2001	6	27
52	Proactive conservation to prevent habitat losses to agricultural expansion. <i>Nature Sustainability</i> , 2021 , 4, 314-322	22.1	27
51	Grassland biodiversity can pay. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 3876-3881	11.5	25
50	Ecology: Diversity breeds complementarity. <i>Nature</i> , 2014 , 515, 44-5	50.4	24
49	Benefits of intensive agricultural intercropping. <i>Nature Plants</i> , 2020 , 6, 604-605	11.5	22
48	Plant effects on soil N mineralization are mediated by the composition of multiple soil organic fractions. <i>Ecological Research</i> , 2011 , 26, 201-208	1.9	22
47	Predictions of species interactions from consumer-resource theory: experimental tests with grasshoppers and plants. <i>Oecologia</i> , 1993 , 94, 516-527	2.9	22
46	Food-web composition and plant diversity control foliar nutrient content and stoichiometry. <i>Journal of Ecology</i> , 2015 , 103, 1432-1441	6	21
45	Biodiversity: Recovery as nitrogen declines. <i>Nature</i> , 2015 , 528, 336-7	50.4	21

44	Restoring Abandoned Farmland to Mitigate Climate Change on a Full Earth. <i>One Earth</i> , 2020 , 3, 176-186	8.1	21
43	Ambient changes exceed treatment effects on plant species abundance in global change experiments. <i>Global Change Biology</i> , 2018 , 24, 5668-5679	11.4	21
42	Phenological responses of prairie plants vary among species and year in a three-year experimental warming study. <i>Ecosphere</i> , 2015 , 6, art208	3.1	20
41	Limited evidence for spatial resource partitioning across temperate grassland biodiversity experiments. <i>Ecology</i> , 2020 , 101, e02905	4.6	20
40	SPECIES RESPONSES TO NITROGEN FERTILIZATION IN HERBACEOUS PLANT COMMUNITIES, AND ASSOCIATED SPECIES TRAITS. <i>Ecology</i> , 2008 , 89, 1175-1175	4.6	19
39	Biodiversity enhances the multitrophic control of arthropod herbivory. <i>Science Advances</i> , 2020 , 6,	14.3	18
38	Long-term increased grain yield and soil fertility from intercropping. <i>Nature Sustainability</i> ,	22.1	18
37	An evolutionary approach to ecosystem functioning. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001 , 98, 10979-80	11.5	17
36	Resistance of soil biota and plant growth to disturbance increases with plant diversity. <i>Ecology Letters</i> , 2020 , 23, 119-128	10	17
35	Identifying mechanisms that structure ecological communities by snapping model parameters to empirically observed tradeoffs. <i>Ecology Letters</i> , 2018 , 21, 494-505	10	16
34	Air quality-related health damages of food. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	16
33	Consequences of elevated temperatures on legume biomass and nitrogen cycling in a field warming and biodiversity experiment in a North American prairie. <i>Functional Plant Biology</i> , 2013 , 40, 1147-1158	2.7	14
32	Does diversity beget stability?. <i>Nature</i> , 1994 , 371, 114-114	50.4	14
31	Mechanistically derived dispersal kernels explain species-level patterns of recruitment and succession. <i>Ecology</i> , 2018 , 99, 2415-2420	4.6	13
30	Biodiversity & Environmental Sustainability amid Human Domination of Global Ecosystems. <i>Daedalus</i> , 2012 , 141, 108-120	2	12
29	Plant biodiversity and the regeneration of soil fertility. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	12
28	Grassland ecosystem recovery after soil disturbance depends on nutrient supply rate. <i>Ecology Letters</i> , 2020 , 23, 1756-1765	10	12
27	Biotic homogenization destabilizes ecosystem functioning by decreasing spatial asynchrony. <i>Ecology</i> , 2021 , 102, e03332	4.6	12

26	Response--Ecosystem Services: Free Lunch No More. <i>Science</i> , 2012 , 335, 656-657	33.3	11
25	The Benefits of Natural Disasters. <i>Science</i> , 1996 , 273, 1518-0	33.3	11
24	Towards a theoretical basis for ecosystem conservation. <i>Ecological Research</i> , 2001 , 16, 983-995	1.9	10
23	Diversity-dependent soil acidification under nitrogen enrichment constrains biomass productivity. <i>Global Change Biology</i> , 2020 , 26, 6594-6603	11.4	10
22	Community diversity outweighs effect of warming on plant colonization. <i>Global Change Biology</i> , 2020 , 26, 3079-3090	11.4	9
21	Further re-analyses looking for effects of phylogenetic diversity on community biomass and stability. <i>Functional Ecology</i> , 2015 , 29, 1607-1610	5.6	9
20	Seed and microsite limitation in a late-successional old field: the effects of water, adults, litter, and small mammals on seeds and seedlings. <i>Plant Ecology</i> , 2012 , 213, 1003-1013	1.7	9
19	Diversity and stability in plant communities (Reply). <i>Nature</i> , 2007 , 446, E7-E8	50.4	9
18	Functional Diversity 2001 , 587-596		7
17	THE INVASION PARADOX: RECONCILING PATTERN AND PROCESS IN SPECIES INVASIONS 2007 , 88, 3		7
16	African mammals, foodwebs, and coexistence. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 7890-1	11.5	6
15	Mechanisms of Plant Competition 239-261		6
14	Tree diversity in relation to maximum tree height: evidence for the harshness hypothesis of species diversity gradients. <i>Ecology Letters</i> , 2017 , 20, 398-399	10	5
13	Temporal variability in production is not consistently affected by global change drivers across herbaceous-dominated ecosystems. <i>Oecologia</i> , 2020 , 194, 735-744	2.9	5
12	Chronic fertilization and irrigation gradually and increasingly restructure grassland communities. <i>Ecosphere</i> , 2019 , 10, e02625	3.1	4
11	Species fragmentation or area loss?. <i>Nature</i> , 1996 , 382, 216-216	50.4	4
10	FIRE SUPPRESSION AND ECOSYSTEM CARBON STORAGE 2000 , 81, 2680		4
9	Reply to Le Pape et al.: Management is key to preventing marine extinctions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E6275-E6276	11.5	2

8	Response--Biofuels. <i>Science</i> , 2009 , 326, 1346-1346	33.3	2
7	Cultivate biodiversity to harvest food security and sustainability. <i>Current Biology</i> , 2021 , 31, R1154-R1158	6.3	2
6	Broadly inflicted stressors can cause ecosystem thinning. <i>Theoretical Ecology</i> , 2019 , 12, 207-223	1.6	1
5	Reply to: Crop asynchrony stabilizes food production. <i>Nature</i> , 2020 , 588, E13	50.4	0
4	Might field experiments also be inadvertent metacommunities?. <i>Ecology</i> , 2022 , e3694	4.6	0
3	Is fertilization efficiency misleading?. <i>Nature</i> , 2003 , 422, 398-398	50.4	
2	Response of <i>Microtus pennsylvanicus</i> to vegetation fertilized with various nutrients, with particular emphasis on sodium and nitrogen concentrations in plant tissues. <i>Ecography</i> , 1987 , 10, 110-113	6.5	
1	Extinction, Climate Change and the Ecology of <i>Homo sapiens</i> . <i>Journal of Ecology</i> ,	6	