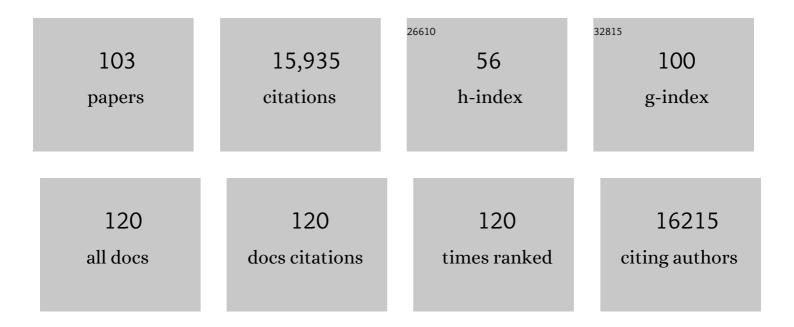
List of Publications by Year in descending order

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FOREST ISRELL

#	Article	IF	CITATIONS
1	Biodiversity and Ecosystem Functioning. Annual Review of Ecology, Evolution, and Systematics, 2014, 45, 471-493.	3.8	1,311
2	High plant diversity is needed to maintain ecosystem services. Nature, 2011, 477, 199-202.	13.7	1,195
3	Biodiversity increases the resistance of ecosystem productivity to climate extremes. Nature, 2015, 526, 574-577.	13.7	1,032
4	Impacts of Biodiversity Loss Escalate Through Time as Redundancy Fades. Science, 2012, 336, 589-592.	6.0	672
5	Investigating the relationship between biodiversity and ecosystem multifunctionality: challenges and solutions. Methods in Ecology and Evolution, 2014, 5, 111-124.	2.2	533
6	Anthropogenic environmental changes affect ecosystem stability via biodiversity. Science, 2015, 348, 336-340.	6.0	516
7	Biodiversity enhances ecosystem multifunctionality across trophic levels and habitats. Nature Communications, 2015, 6, 6936.	5.8	515
8	Nutrient enrichment, biodiversity loss, and consequent declines in ecosystem productivity. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 11911-11916.	3.3	511
9	Linking the influence and dependence of people on biodiversity across scales. Nature, 2017, 546, 65-72.	13.7	474
10	Biodiversity impacts ecosystem productivity as much as resources, disturbance, or herbivory. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 10394-10397.	3.3	400
11	Biodiversity, productivity and the temporal stability of productivity: patterns and processes. Ecology Letters, 2009, 12, 443-451.	3.0	393
12	The geography of biodiversity change in marine and terrestrial assemblages. Science, 2019, 366, 339-345.	6.0	385
13	β-Diversity, Community Assembly, and Ecosystem Functioning. Trends in Ecology and Evolution, 2018, 33, 549-564.	4.2	374
14	Benefits of increasing plant diversity in sustainable agroecosystems. Journal of Ecology, 2017, 105, 871-879.	1.9	360
15	Multiple facets of biodiversity drive the diversity–stability relationship. Nature Ecology and Evolution, 2018, 2, 1579-1587.	3.4	296
16	Linking Biodiversity and Ecosystem Services: Current Uncertainties and the Necessary Next Steps. BioScience, 2014, 64, 49-57.	2.2	285
17	Scalingâ€up biodiversityâ€ecosystem functioning research. Ecology Letters, 2020, 23, 757-776.	3.0	270
18	Predicting ecosystem stability from community composition and biodiversity. Ecology Letters, 2013, 16, 617-625.	3.0	251

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19	The Future of Complementarity: Disentangling Causes from Consequences. Trends in Ecology and Evolution, 2019, 34, 167-180.	4.2	246
20	Set ambitious goals for biodiversity and sustainability. Science, 2020, 370, 411-413.	6.0	225
21	Estimating local biodiversity change: a critique of papers claiming no net loss of local diversity. Ecology, 2016, 97, 1949-1960.	1.5	224
22	Diversifying livestock promotes multidiversity and multifunctionality in managed grasslands. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 6187-6192.	3.3	219
23	Local loss and spatial homogenization of plant diversity reduce ecosystem multifunctionality. Nature Ecology and Evolution, 2018, 2, 50-56.	3.4	172
24	Spatial convergent cross mapping to detect causal relationships from short time series. Ecology, 2015, 96, 1174-1181.	1.5	170
25	Plant diversity effects on grassland productivity are robust to both nutrient enrichment and drought. Philosophical Transactions of the Royal Society B: Biological Sciences, 2016, 371, 20150277.	1.8	169
26	Species richness change across spatial scales. Oikos, 2019, 128, 1079-1091.	1.2	160
27	When Do Ecosystem Services Depend on Rare Species?. Trends in Ecology and Evolution, 2019, 34, 746-758.	4.2	159
28	Quantifying effects of biodiversity on ecosystem functioning across times and places. Ecology Letters, 2018, 21, 763-778.	3.0	157
29	Low biodiversity state persists two decades after cessation of nutrient enrichment. Ecology Letters, 2013, 16, 454-460.	3.0	151
30	The biodiversityâ€dependent ecosystem service debt. Ecology Letters, 2015, 18, 119-134.	3.0	146
31	Global change effects on plant communities are magnified by time and the number of global change factors imposed. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 17867-17873.	3.3	141
32	Mapping human pressures on biodiversity across the planet uncovers anthropogenic threat complexes. People and Nature, 2020, 2, 380-394.	1.7	139
33	Asynchrony among local communities stabilises ecosystem function of metacommunities. Ecology Letters, 2017, 20, 1534-1545.	3.0	136
34	Rapid plant species loss at high rates and at low frequency of N addition in temperate steppe. Global Change Biology, 2014, 20, 3520-3529.	4.2	132
35	Low multifunctional redundancy of soil fungal diversity at multiple scales. Ecology Letters, 2016, 19, 249-259.	3.0	128
36	Species richness, but not phylogenetic diversity, influences community biomass production and temporal stability in a reâ€examination of 16 grassland biodiversity studies. Functional Ecology, 2015, 29, 615-626.	1.7	124

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37	The social costs of nitrogen. Science Advances, 2016, 2, e1600219.	4.7	118
38	Biodiversity as insurance: from concept to measurement and application. Biological Reviews, 2021, 96, 2333-2354.	4.7	101
39	Deficits of biodiversity and productivity linger a century after agricultural abandonment. Nature Ecology and Evolution, 2019, 3, 1533-1538.	3.4	98
40	Understanding the value of plant diversity for ecosystem functioning through niche theory. Proceedings of the Royal Society B: Biological Sciences, 2016, 283, 20160536.	1.2	96
41	Diversity-dependent temporal divergence of ecosystem functioning in experimental ecosystems. Nature Ecology and Evolution, 2017, 1, 1639-1642.	3.4	95
42	A multitrophic perspective on biodiversity–ecosystem functioning research. Advances in Ecological Research, 2019, 61, 1-54.	1.4	95
43	Integrating community assembly and biodiversity to better understand ecosystem function: the Community Assembly and the Functioning of Ecosystems (<scp>CAFE</scp>) approach. Ecology Letters, 2018, 21, 167-180.	3.0	94
44	The results of biodiversity–ecosystem functioning experiments are realistic. Nature Ecology and Evolution, 2020, 4, 1485-1494.	3.4	93
45	Exacerbated nitrogen limitation ends transient stimulation of grassland productivity by increased precipitation. Ecological Monographs, 2017, 87, 457-469.	2.4	87
46	The strength of the biodiversity–ecosystem function relationship depends on spatial scale. Proceedings of the Royal Society B: Biological Sciences, 2018, 285, 20180038.	1.2	82
47	Biodiversity maintenance mechanisms differ between native and novel exoticâ€dominated communities. Ecology Letters, 2009, 12, 432-442.	3.0	81
48	Plant functional traits improve diversityâ€based predictions of temporal stability of grassland productivity. Oikos, 2013, 122, 1275-1282.	1.2	79
49	A comprehensive approach to analyzing community dynamics using rank abundance curves. Ecosphere, 2019, 10, e02881.	1.0	79
50	Biodiversity–productivity relationships are key to nature-based climate solutions. Nature Climate Change, 2021, 11, 543-550.	8.1	77
51	General destabilizing effects of eutrophication on grassland productivity at multiple spatial scales. Nature Communications, 2020, 11, 5375.	5.8	75
52	Biotic homogenization destabilizes ecosystem functioning by decreasing spatial asynchrony. Ecology, 2021, 102, e03332.	1.5	74
53	Disentangling relationships between plant diversity and decomposition processes under forest restoration. Journal of Applied Ecology, 2017, 54, 80-90.	1.9	71
54	An attainable global vision for conservation and human wellâ€being. Frontiers in Ecology and the Environment, 2018, 16, 563-570.	1.9	71

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55	Biodiversity enhances the multitrophic control of arthropod herbivory. Science Advances, 2020, 6, .	4.7	68
56	Decomposer diversity and identity influence plant diversity effects on ecosystem functioning. Ecology, 2012, 93, 2227-2240.	1.5	63
57	Increasing effects of chronic nutrient enrichment on plant diversity loss and ecosystem productivity over time. Ecology, 2021, 102, e03218.	1.5	62
58	Disturbance type and species life history predict mammal responses to humans. Global Change Biology, 2021, 27, 3718-3731.	4.2	62
59	BUGS in the Analysis of Biodiversity Experiments: Species Richness and Composition Are of Similar Importance for Grassland Productivity. PLoS ONE, 2011, 6, e17434.	1.1	62
60	Testing the effects of diversity on ecosystem multifunctionality using a multivariate model. Ecology Letters, 2015, 18, 1242-1251.	3.0	61
61	Niche and fitness differences relate the maintenance of diversity to ecosystem function: comment. Ecology, 2012, 93, 1482-1487.	1.5	58
62	The interactive effects of press/pulse intensity and duration on regime shifts at multiple scales. Ecological Monographs, 2017, 87, 198-218.	2.4	58
63	Nitrogen addition reduced ecosystem stability regardless of its impacts on plant diversity. Journal of Ecology, 2019, 107, 2427-2435.	1.9	57
64	Achieving global biodiversity goals by 2050 requires urgent and integrated actions. One Earth, 2022, 5, 597-603.	3.6	57
65	An improved model to predict the effects of changing biodiversity levels on ecosystem function. Journal of Ecology, 2013, 101, 344-355.	1.9	56
66	Plant diversity maintains multiple soil functions in future environments. ELife, 2018, 7, .	2.8	54
67	A framework for quantifying the magnitude and variability of community responses to global change drivers. Ecosphere, 2015, 6, 1-14.	1.0	51
68	Climate warming promotes species diversity, but with greater taxonomic redundancy, in complex environments. Science Advances, 2017, 3, e1700866.	4.7	50
69	Expert perspectives on global biodiversity loss and its drivers and impacts on people. Frontiers in Ecology and the Environment, 2023, 21, 94-103.	1.9	49
70	Productivity depends more on the rate than the frequency of N addition in a temperate grassland. Scientific Reports, 2015, 5, 12558.	1.6	47
71	Increasing native, but not exotic, biodiversity increases aboveground productivity in ungrazed and intensely grazed grasslands. Oecologia, 2011, 165, 771-781.	0.9	46
72	Species interaction mechanisms maintain grassland plant species diversity. Ecology, 2009, 90, 1821-1830.	1.5	43

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73	Limited evidence for spatial resource partitioning across temperate grassland biodiversity experiments. Ecology, 2020, 101, e02905.	1.5	40
74	Grassland biodiversity can pay. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 3876-3881.	3.3	38
75	How complementarity and selection affect the relationship between ecosystem functioning and stability. Ecology, 2021, 102, e03347.	1.5	38
76	Recovery as nitrogen declines. Nature, 2015, 528, 336-337.	13.7	36
77	A meta-analysis on decomposition quantifies afterlife effects of plant diversity as a global change driver. Nature Communications, 2020, 11, 4547.	5.8	36
78	Diversity–productivity relationships in two ecologically realistic rarity–extinction scenarios. Oikos, 2008, 117, 996-1005.	1.2	35
79	Multifunctionality does not imply that all functions are positively correlated. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E5490.	3.3	31
80	Diversityâ€dependent soil acidification under nitrogen enrichment constrains biomass productivity. Global Change Biology, 2020, 26, 6594-6603.	4.2	31
81	Determinants of community compositional change are equally affected by global change. Ecology Letters, 2021, 24, 1892-1904.	3.0	27
82	Ambient changes exceed treatment effects on plant species abundance in global change experiments. Global Change Biology, 2018, 24, 5668-5679.	4.2	25
83	Rapid biodiversity declines in both ungrazed and intensely grazed exotic grasslands. Plant Ecology, 2011, 212, 1663-1674.	0.7	22
84	The Links Between Biodiversity and Ecosystem Services. , 2016, , 45-61.		20
85	Is community persistence related to diversity? A test with prairie species in a long-term experiment. Basic and Applied Ecology, 2013, 14, 199-207.	1.2	18
86	Agroecology: Agroecosystem diversification. Nature Plants, 2015, 1, 15041.	4.7	18
87	Reversal of nitrogen-induced species diversity declines mediated by change in dominant grass and litter. Oecologia, 2018, 188, 921-929.	0.9	17
88	Do not downplay biodiversity loss. Nature, 2022, 601, E27-E28.	13.7	17
89	Lost in trait space: species-poor communities are inflexible in properties that drive ecosystem functioning. Advances in Ecological Research, 2019, , 91-131.	1.4	14
90	Overgrazing, not haying, decreases grassland topsoil organic carbon by decreasing plant species richness along an aridity gradient in Northern China. Agriculture, Ecosystems and Environment, 2022, 332, 107935.	2.5	14

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91	Behaviorally-mediated trophic cascade attenuated by prey use of risky places at safe times. Oecologia, 2021, 195, 235-248.	0.9	12
92	Increasing the uptake of ecological model results in policy decisions to improve biodiversity outcomes. Environmental Modelling and Software, 2022, 149, 105318.	1.9	11
93	Gray Wolf (<i>Canis lupus</i>) recolonization failure: a Minnesota case study. Canadian Field-Naturalist, 2019, 133, 60-65.	0.0	9
94	Diversifying bioenergy crops increases yield and yield stability by reducing weed abundance. Science Advances, 2021, 7, eabg8531.	4.7	9
95	Chronic fertilization and irrigation gradually and increasingly restructure grassland communities. Ecosphere, 2019, 10, e02625.	1.0	8
96	Temporal variability in production is not consistently affected by global change drivers across herbaceous-dominated ecosystems. Oecologia, 2020, 194, 735-744.	0.9	8
97	Grand challenges in biodiversity–ecosystem functioning research in the era of science–policy platforms require explicit consideration of feedbacks. Proceedings of the Royal Society B: Biological Sciences, 2021, 288, 20210783.	1.2	8
98	Bats join the ranks of oxpeckers and cleaner fish as partners in a pestâ€reducing mutualism. Ethology, 2019, 125, 170-175.	0.5	7
99	Sustainability of Human Ecological Niche Construction. Ecology and Society, 2014, 19, .	1.0	6
100	Consistent functional clusters explain the effects of biodiversity on ecosystem productivity in a longâ€ŧerm experiment. Ecology, 2021, 102, e03441.	1.5	6
101	BII-Implementation: The causes and consequences of plant biodiversity across scales in a rapidly changing world. Research Ideas and Outcomes, 0, 7, .	1.0	5
102	Human impacts on minimum subsets of species critical for maintaining ecosystem structure. Basic and Applied Ecology, 2013, 14, 623-629.	1.2	3
103	Prolonged impacts of past agriculture and ungulate overabundance on soil fungal communities in restored forests. Environmental DNA, 2021, 3, 930-939.	3.1	2