

Peter B Reich

List of Publications by Year in descending order

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726
papers

124,068
citations

107

164
h-index

192

317
g-index

759
all docs

759
docs citations

759
times ranked

52335
citing authors

#	ARTICLE	IF	CITATIONS
1	The worldwide leaf economics spectrum. <i>Nature</i> , 2004, 428, 821-827.	27.8	6,489
2	A handbook of protocols for standardised and easy measurement of plant functional traits worldwide. <i>Australian Journal of Botany</i> , 2003, 51, 335.	0.6	3,071
3	New handbook for standardised measurement of plant functional traits worldwide. <i>Australian Journal of Botany</i> , 2013, 61, 167.	0.6	2,818
4	The Influence of Functional Diversity and Composition on Ecosystem Processes. <i>Science</i> , 1997, 277, 1300-1302.	12.6	2,414
5	The worldâ€™wide â€˜fastâ€™-â€˜slowâ€™ TM plant economics spectrum: a traits manifesto. <i>Journal of Ecology</i> , 2014, 102, 275-301.	4.0	2,379
6	The global spectrum of plant form and function. <i>Nature</i> , 2016, 529, 167-171.	27.8	2,022
7	Biomass allocation to leaves, stems and roots: metaâ€™analyses of interspecific variation and environmental control. <i>New Phytologist</i> , 2012, 193, 30-50.	7.3	2,012
8	TRY â€˜ a global database of plant traits. <i>Global Change Biology</i> , 2011, 17, 2905-2935.	9.5	2,002
9	From tropics to tundra: Global convergence in plant functioning. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1997, 94, 13730-13734.	7.1	1,979
10	Plant species traits are the predominant control on litter decomposition rates within biomes worldwide. <i>Ecology Letters</i> , 2008, 11, 1065-1071.	6.4	1,913
11	Diversity and Productivity in a Long-Term Grassland Experiment. <i>Science</i> , 2001, 294, 843-845.	12.6	1,873
12	Assessing the generality of global leaf trait relationships. <i>New Phytologist</i> , 2005, 166, 485-496.	7.3	1,704
13	Biodiversity and ecosystem stability in a decade-long grassland experiment. <i>Nature</i> , 2006, 441, 629-632.	27.8	1,668
14	Global patterns of plant leaf N and P in relation to temperature and latitude. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 11001-11006.	7.1	1,544
15	Leaf Lifeâ€™Span in Relation to Leaf, Plant, and Stand Characteristics among Diverse Ecosystems. <i>Ecological Monographs</i> , 1992, 62, 365-392.	5.4	1,385
16	Microbial diversity drives multifunctionality in terrestrial ecosystems. <i>Nature Communications</i> , 2016, 7, 10541.	12.8	1,365
17	Three keys to the radiation of angiosperms into freezing environments. <i>Nature</i> , 2014, 506, 89-92.	27.8	1,284
18	High plant diversity is needed to maintain ecosystem services. <i>Nature</i> , 2011, 477, 199-202.	27.8	1,195

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19	GENERALITY OF LEAF TRAIT RELATIONSHIPS: A TEST ACROSS SIX BIOMES. <i>Ecology</i> , 1999, 80, 1955-1969.	3.2	1,091
20	TRY plant trait database “ enhanced coverage and open access. <i>Global Change Biology</i> , 2020, 26, 119-188.	9.5	1,038
21	Biodiversity increases the resistance of ecosystem productivity to climate extremes. <i>Nature</i> , 2015, 526, 574-577.	27.8	1,032
22	Biodiversity as a barrier to ecological invasion. <i>Nature</i> , 2002, 417, 636-638.	27.8	935
23	Quantifying global soil carbon losses in response to warming. <i>Nature</i> , 2016, 540, 104-108.	27.8	879
24	Positive biodiversity-productivity relationship predominant in global forests. <i>Science</i> , 2016, 354, .	12.6	864
25	Functional traits and the growth“mortality trade“off in tropical trees. <i>Ecology</i> , 2010, 91, 3664-3674.	3.2	788
26	Nitrogen limitation constrains sustainability of ecosystem response to CO ₂ . <i>Nature</i> , 2006, 440, 922-925.	27.8	780
27	A global study of relationships between leaf traits, climate and soil measures of nutrient fertility. <i>Global Ecology and Biogeography</i> , 2009, 18, 137-149.	5.8	767
28	Global patterns of foliar nitrogen isotopes and their relationships with climate, mycorrhizal fungi, foliar nutrient concentrations, and nitrogen availability. <i>New Phytologist</i> , 2009, 183, 980-992.	7.3	744
29	Effects of plant species richness on invasion dynamics, disease outbreaks, insect abundances and diversity. <i>Ecology Letters</i> , 1999, 2, 286-293.	6.4	723
30	Canopy structure and vertical patterns of photosynthesis and related leaf traits in a deciduous forest. <i>Oecologia</i> , 1993, 96, 169-178.	2.0	685
31	Impacts of Biodiversity Loss Escalate Through Time as Redundancy Fades. <i>Science</i> , 2012, 336, 589-592.	12.6	672
32	Modulation of leaf economic traits and trait relationships by climate. <i>Global Ecology and Biogeography</i> , 2005, 14, 411-421.	5.8	669
33	Strategy shifts in leaf physiology, structure and nutrient content between species of high- and low-rainfall and high- and low-nutrient habitats. <i>Functional Ecology</i> , 2001, 15, 423-434.	3.6	648
34	Linking litter calcium, earthworms and soil properties: a common garden test with 14 tree species. <i>Ecology Letters</i> , 2005, 8, 811-818.	6.4	586
35	Forest productivity increases with evenness, species richness and trait variation: a global meta“analysis. <i>Journal of Ecology</i> , 2012, 100, 742-749.	4.0	585
36	Global climatic drivers of leaf size. <i>Science</i> , 2017, 357, 917-921.	12.6	580

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37	Quantifying plant response to ozone: a unifying theory. <i>Tree Physiology</i> , 1987, 3, 63-91.	3.1	557
38	Leaf lifespan as a determinant of leaf structure and function among 23 amazonian tree species. <i>Oecologia</i> , 1991, 86, 16-24.	2.0	546
39	Multiple elements of soil biodiversity drive ecosystem functions across biomes. <i>Nature Ecology and Evolution</i> , 2020, 4, 210-220.	7.8	543
40	The emergence and promise of functional biogeography. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 13690-13696.	7.1	525
41	Plant diversity enhances ecosystem responses to elevated CO ₂ and nitrogen deposition. <i>Nature</i> , 2001, 410, 809-810.	27.8	517
42	Soil microbes drive the classic plant diversity–productivity pattern. <i>Ecology</i> , 2011, 92, 296-303.	3.2	517
43	Anthropogenic environmental changes affect ecosystem stability via biodiversity. <i>Science</i> , 2015, 348, 336-340.	12.6	516
44	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, 11911-11916.	7.1	511
45	Universal scaling of respiratory metabolism, size and nitrogen in plants. <i>Nature</i> , 2006, 439, 457-461.	27.8	484
46	TREE SPECIES EFFECTS ON DECOMPOSITION AND FOREST FLOOR DYNAMICS IN A COMMON GARDEN. <i>Ecology</i> , 2006, 87, 2288-2297.	3.2	482
47	Leaf structure (specific leaf area) modulates photosynthesis-nitrogen relations: evidence from within and across species and functional groups. <i>Functional Ecology</i> , 1998, 12, 948-958.	3.6	479
48	Modelling respiration of vegetation: evidence for a general temperature-dependent Q ₁₀ . <i>Global Change Biology</i> , 2001, 7, 223-230.	9.5	461
49	Ambient Levels of Ozone Reduce Net Photosynthesis in Tree and Crop Species. <i>Science</i> , 1985, 230, 566-570.	12.6	454
50	Plant functional trait change across a warming tundra biome. <i>Nature</i> , 2018, 562, 57-62.	27.8	451
51	Relationships of leaf dark respiration to leaf nitrogen, specific leaf area and leaf life-span: a test across biomes and functional groups. <i>Oecologia</i> , 1998, 114, 471-482.	2.0	441
52	Shifting plant species composition in response to climate change stabilizes grassland primary production. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 4051-4056.	7.1	431
53	Photosynthesis and respiration rates depend on leaf and root morphology and nitrogen concentration in nine boreal tree species differing in relative growth rate. <i>Functional Ecology</i> , 1998, 12, 395-405.	3.6	430
54	NITROGEN MINERALIZATION AND PRODUCTIVITY IN 50 HARDWOOD AND CONIFER STANDS ON DIVERSE SOILS. <i>Ecology</i> , 1997, 78, 335-347.	3.2	429

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55	FUNDAMENTAL TRADE-OFFS GENERATING THE WORLDWIDE LEAF ECONOMICS SPECTRUM. <i>Ecology</i> , 2006, 87, 535-541.	3.2	422
56	Water Stress and Tree Phenology in a Tropical Dry Forest in the Lowlands of Costa Rica. <i>Journal of Ecology</i> , 1984, 72, 61.	4.0	413
57	Linking leaf and root trait syndromes among 39 grassland and savannah species. <i>New Phytologist</i> , 2005, 167, 493-508.	7.3	413
58	Different photosynthesis-nitrogen relations in deciduous hardwood and evergreen coniferous tree species. <i>Oecologia</i> , 1995, 104, 24-30.	2.0	409
59	Biogeography and variability of eleven mineral elements in plant leaves across gradients of climate, soil and plant functional type in China. <i>Ecology Letters</i> , 2011, 14, 788-796.	6.4	406
60	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, 10394-10397.	7.1	400
61	Close association of RGR, leaf and root morphology, seed mass and shade tolerance in seedlings of nine boreal tree species grown in high and low light. <i>Functional Ecology</i> , 1998, 12, 327-338.	3.6	397
62	Global trait–environment relationships of plant communities. <i>Nature Ecology and Evolution</i> , 2018, 2, 1906-1917.	7.8	397
63	COMPARISONS OF STRUCTURE AND LIFE SPAN IN ROOTS AND LEAVES AMONG TEMPERATE TREES. <i>Ecological Monographs</i> , 2006, 76, 381-397.	5.4	377
64	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, 871-876.	2.6	375
65	Scaling of respiration to nitrogen in leaves, stems and roots of higher land plants. <i>Ecology Letters</i> , 2008, 11, 793-801.	6.4	373
66	Climatic controls of decomposition drive the global biogeography of forest-tree symbioses. <i>Nature</i> , 2019, 569, 404-408.	27.8	371
67	Carbon-Nitrogen Interactions in Terrestrial Ecosystems in Response to Rising Atmospheric Carbon Dioxide. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2006, 37, 611-636.	8.3	366
68	Global Leaf Trait Relationships: Mass, Area, and the Leaf Economics Spectrum. <i>Science</i> , 2013, 340, 741-744.	12.6	361
69	Low-light carbon balance and shade tolerance in the seedlings of woody plants: do winter deciduous and broad-leaved evergreen species differ?. <i>New Phytologist</i> , 1999, 143, 143-154.	7.3	354
70	Global variability in leaf respiration in relation to climate, plant functional types and leaf traits. <i>New Phytologist</i> , 2015, 206, 614-636.	7.3	350
71	Why are non-photosynthetic tissues generally ¹³ C enriched compared with leaves in C3 plants? Review and synthesis of current hypotheses. <i>Functional Plant Biology</i> , 2009, 36, 199.	2.1	348
72	Reinforcing loose foundation stones in trait-based plant ecology. <i>Oecologia</i> , 2016, 180, 923-931.	2.0	335

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73	Convergence towards higher leaf mass per area in dry and nutrient-poor habitats has different consequences for leaf life span. <i>Journal of Ecology</i> , 2002, 90, 534-543.	4.0	334
74	PRESCRIBED FIRE IN OAK SAVANNA: FIRE FREQUENCY EFFECTS ON STAND STRUCTURE AND DYNAMICS. , 2001, 11, 914-927.		333
75	Functional traits, productivity and effects on nitrogen cycling of 33 grassland species. <i>Functional Ecology</i> , 2002, 16, 563-574.	3.6	331
76	A global method for calculating plant <sc>CSR</sc> ecological strategies applied across biomes world-wide. <i>Functional Ecology</i> , 2017, 31, 444-457.	3.6	330
77	Are Shade Tolerance, Survival, and Growth Linked? Low Light and Nitrogen Effects on Hardwood Seedlings. <i>Ecology</i> , 1996, 77, 841-853.	3.2	327
78	Canopy nitrogen, carbon assimilation, and albedo in temperate and boreal forests: Functional relations and potential climate feedbacks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 19336-19341.	7.1	326
79	Fire frequency drives decadal changes in soil carbon and nitrogen and ecosystem productivity. <i>Nature</i> , 2018, 553, 194-198.	27.8	325
80	Which is a better predictor of plant traits: temperature or precipitation?. <i>Journal of Vegetation Science</i> , 2014, 25, 1167-1180.	2.2	323
81	Spatial Patterns and Succession in a Minnesota Southern-Boreal Forest. <i>Ecological Monographs</i> , 1995, 65, 325-346.	5.4	321
82	Phenology of tropical forests: patterns, causes, and consequences. <i>Canadian Journal of Botany</i> , 1995, 73, 164-174.	1.1	309
83	Species Richness and the Temporal Stability of Biomass Production: A New Analysis of Recent Biodiversity Experiments. <i>American Naturalist</i> , 2014, 183, 1-12.	2.1	309
84	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.	7.1	308
85	Multiple facets of biodiversity drive the diversity-stability relationship. <i>Nature Ecology and Evolution</i> , 2018, 2, 1579-1587.	7.8	296
86	Nutrient limitation reduces land carbon uptake in simulations with a model of combined carbon, nitrogen and phosphorus cycling. <i>Biogeosciences</i> , 2012, 9, 3547-3569.	3.3	295
87	Growth and physiology of <i>Picea abies</i> populations from elevational transects: common garden evidence for altitudinal ecotypes and cold adaptation. <i>Functional Ecology</i> , 1998, 12, 573-590.	3.6	291
88	BioTIME: A database of biodiversity time series for the Anthropocene. <i>Global Ecology and Biogeography</i> , 2018, 27, 760-786.	5.8	289
89	Spatial complementarity in tree crowns explains overyielding in species mixtures. <i>Nature Ecology and Evolution</i> , 2017, 1, 63.	7.8	285
90	Competition between tree seedlings and herbaceous vegetation: support for a theory of resource supply and demand. <i>Journal of Ecology</i> , 1998, 86, 652-661.	4.0	283

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91	Mean mass-specific metabolic rates are strikingly similar across life's major domains: Evidence for life's metabolic optimum. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 16994-16999.	7.1	276
92	Leaf phosphorus influences the photosynthesis–nitrogen relation: a cross-biome analysis of 314 species. Oecologia, 2009, 160, 207-212.	2.0	274
93	Erosion reduces soil microbial diversity, network complexity and multifunctionality. ISME Journal, 2021, 15, 2474-2489.	9.8	273
94	Nitrogen and phosphorus constrain the CO ₂ fertilization of global plant biomass. Nature Climate Change, 2019, 9, 684-689.	18.8	269
95	A trade-off between plant and soil carbon storage under elevated CO ₂ . Nature, 2021, 591, 599-603.	27.8	268
96	Extrapolating leaf CO ₂ exchange to the canopy: a generalized model of forest photosynthesis compared with measurements by eddy correlation. Oecologia, 1996, 106, 257-265.	2.0	266
97	Photosynthesis, carboxylation and leaf nitrogen responses of 16 species to elevated pCO ₂ across four free-air CO ₂ enrichment experiments in forest, grassland and desert. Global Change Biology, 2004, 10, 2121-2138.	9.5	265
98	Convergence and correlations among leaf size and function in seed plants: a comparative test using independent contrasts. American Journal of Botany, 1999, 86, 1272-1281.	1.7	262
99	Leaf age and season influence the relationships between leaf nitrogen, leaf mass per area and photosynthesis in maple and oak trees. Plant, Cell and Environment, 1991, 14, 251-259.	5.7	255
100	Global effects of soil and climate on leaf photosynthetic traits and rates. Global Ecology and Biogeography, 2015, 24, 706-717.	5.8	254
101	Least-Cost Input Mixtures of Water and Nitrogen for Photosynthesis. American Naturalist, 2003, 161, 98-111.	2.1	252
102	Metagenomic analysis reveals a marked divergence in the structure of belowground microbial communities at elevated CO ₂ . Ecology Letters, 2010, 13, 564-575.	6.4	252
103	Plant growth enhancement by elevated CO ₂ eliminated by joint water and nitrogen limitation. Nature Geoscience, 2014, 7, 920-924.	12.9	251
104	Earthworm invasion into previously earthworm-free temperate and boreal forests. Biological Invasions, 2006, 8, 1235-1245.	2.4	250
105	Temperature drives global patterns in forest biomass distribution in leaves, stems, and roots. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 13721-13726.	7.1	249
106	Effects of climate warming on photosynthesis in boreal tree species depend on soil moisture. Nature, 2018, 562, 263-267.	27.8	248
107	Leaf Mass Per Area, Nitrogen Content and Photosynthetic Carbon Gain in <i>Acer saccharum</i> Seedlings in Contrasting Forest Light Environments. Functional Ecology, 1992, 6, 423.	3.6	245
108	Climate change effects on plant-soil feedbacks and consequences for biodiversity and functioning of terrestrial ecosystems. Science Advances, 2019, 5, eaaz1834.	10.3	245

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109	Effects of elevated CO ₂ , nitrogen deposition, and decreased species diversity on foliar fungal plant disease. <i>Global Change Biology</i> , 2003, 9, 438-451.	9.5	243
110	It is elemental: soil nutrient stoichiometry drives bacterial diversity. <i>Environmental Microbiology</i> , 2017, 19, 1176-1188.	3.8	242
111	Trees tolerate an extreme heatwave via sustained transpirational cooling and increased leaf thermal tolerance. <i>Global Change Biology</i> , 2018, 24, 2390-2402.	9.5	242
112	Extinction risk and threats to plants and fungi. <i>Plants People Planet</i> , 2020, 2, 389-408.	3.3	242
113	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.	7.3	240
114	How does biomass distribution change with size and differ among species? An analysis for 1200 plant species from five continents. <i>New Phytologist</i> , 2015, 208, 736-749.	7.3	239
115	Plant species richness, elevated CO ₂ , and atmospheric nitrogen deposition alter soil microbial community composition and function. <i>Global Change Biology</i> , 2007, 13, 980-989.	9.5	238
116	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.	4.0	237
117	Photosynthesis-nitrogen relations in Amazonian tree species. <i>Oecologia</i> , 1994, 97, 62-72.	2.0	236
118	Conventional functional classification schemes underestimate the relationship with ecosystem functioning. <i>Ecology Letters</i> , 2006, 9, 111-120.	6.4	236
119	Title is missing!. <i>Plant Ecology</i> , 1999, 145, 341-350.	1.6	235
120	The biogeography and filtering of woody plant functional diversity in North and South America. <i>Global Ecology and Biogeography</i> , 2012, 21, 798-808.	5.8	235
121	Climate, soil and plant functional types as drivers of global fine-root trait variation. <i>Journal of Ecology</i> , 2017, 105, 1182-1196.	4.0	234
122	Species and functional group diversity independently influence biomass accumulation and its response to CO ₂ and N. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 10101-10106.	7.1	233
123	Global change belowground: impacts of elevated <sc><sc>CO₂</sc></sc>, nitrogen, and summer drought on soil food webs and biodiversity. <i>Global Change Biology</i> , 2012, 18, 435-447.	9.5	233
124	Fine root decomposition rates do not mirror those of leaf litter among temperate tree species. <i>Oecologia</i> , 2010, 162, 505-513.	2.0	229
125	Growth, biomass distribution and CO ₂ exchange of northern hardwood seedlings in high and low light: relationships with successional status and shade tolerance. <i>Oecologia</i> , 1993, 94, 7-16.	2.0	225
126	SEED SIZE, NITROGEN SUPPLY, AND GROWTH RATE AFFECT TREE SEEDLING SURVIVAL IN DEEP SHADE. <i>Ecology</i> , 2000, 81, 1887-1901.	3.2	222

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127	Ectomycorrhizal fungal communities at forest edges. <i>Journal of Ecology</i> , 2005, 93, 244-255.	4.0	219
128	Evolutionarily Stable Strategy Carbon Allocation to Foliage, Wood, and Fine Roots in Trees Competing for Light and Nitrogen: An Analytically Tractable, Individual-Based Model and Quantitative Comparisons to Data. <i>American Naturalist</i> , 2011, 177, 153-166.	2.1	218
129	The fate of carbon in a mature forest under carbon dioxide enrichment. <i>Nature</i> , 2020, 580, 227-231.	27.8	218
130	Long-term increase in nitrogen supply alters above- and below-ground ectomycorrhizal communities and increases the dominance of <i>Russula</i> spp. in a temperate oak savanna. <i>New Phytologist</i> , 2003, 160, 239-253.	7.3	216
131	Nitrogen/phosphorus leaf stoichiometry and the scaling of plant growth. <i>Ecology Letters</i> , 2005, 8, 636-642.	6.4	215
132	Acclimation of respiration to temperature and CO ₂ in seedlings of boreal tree species in relation to plant size and relative growth rate. <i>Global Change Biology</i> , 1999, 5, 679-691.	9.5	214
133	Thermal limits of leaf metabolism across biomes. <i>Global Change Biology</i> , 2017, 23, 209-223.	9.5	213
134	Boreal and temperate trees show strong acclimation of respiration to warming. <i>Nature</i> , 2016, 531, 633-636.	27.8	212
135	Unexpected reversal of C ₃ versus C ₄ grass response to elevated CO ₂ during a 20-year field experiment. <i>Science</i> , 2018, 360, 317-320.	12.6	212
136	Climate warming will reduce growth and survival of Scots pine except in the far north. <i>Ecology Letters</i> , 2008, 11, 588-597.	6.4	210
137	PREDICTING LEAF PHYSIOLOGY FROM SIMPLE PLANT AND CLIMATE ATTRIBUTES: A GLOBAL GLOPNET ANALYSIS. <i>Ecological Applications</i> , 2007, 17, 1982-1988.	3.8	207
138	FIRE AND VEGETATION EFFECTS ON PRODUCTIVITY AND NITROGEN CYCLING ACROSS A FOREST-GRASSLAND CONTINUUM. <i>Ecology</i> , 2001, 82, 1703-1719.	3.2	206
139	Effects of European Earthworm Invasion on Soil Characteristics in Northern Hardwood Forests of Minnesota, USA. <i>Ecosystems</i> , 2005, 8, 911-927.	3.4	206
140	Interactive effects of nitrogen deposition, tropospheric ozone, elevated CO ₂ and land use history on the carbon dynamics of northern hardwood forests. <i>Global Change Biology</i> , 2002, 8, 545-562.	9.5	205
141	Plant diversity effects on soil food webs are stronger than those of elevated CO ₂ and N deposition in a long-term grassland experiment. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 6889-6894.	7.1	204
142	Contributions of a global network of tree diversity experiments to sustainable forest plantations. <i>Ambio</i> , 2016, 45, 29-41.	5.5	203
143	Decade-long soil nitrogen constraint on the CO ₂ fertilization of plant biomass. <i>Nature Climate Change</i> , 2013, 3, 278-282.	18.8	202
144	Effects of Low Concentrations of O ₃ on Net Photosynthesis, Dark Respiration, and Chlorophyll Contents in Aging Hybrid Poplar Leaves. <i>Plant Physiology</i> , 1983, 73, 291-296.	4.8	201

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145	CHANGES IN HARDWOOD FOREST UNDERSTORY PLANT COMMUNITIES IN RESPONSE TO EUROPEAN EARTHWORM INVASIONS. <i>Ecology</i> , 2006, 87, 1637-1649.	3.2	201
146	Global-scale latitudinal patterns of plant fine-root nitrogen and phosphorus. <i>Nature Communications</i> , 2011, 2, 344.	12.8	201
147	Ecophysiology of exotic and native shrubs in Southern Wisconsin. <i>Oecologia</i> , 1989, 80, 356-367.	2.0	198
148	Convergence in the temperature response of leaf respiration across biomes and plant functional types. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 3832-3837.	7.1	198
149	Elevated CO ₂ does not increase eucalypt forest productivity on a low-phosphorus soil. <i>Nature Climate Change</i> , 2017, 7, 279-282.	18.8	198
150	Tree Species Effects on Soil Organic Matter Dynamics: The Role of Soil Cation Composition. <i>Ecosystems</i> , 2007, 10, 999-1018.	3.4	193
151	Why are evergreen leaves so contrary about shade?. <i>Trends in Ecology and Evolution</i> , 2008, 23, 299-303.	8.7	193
152	Changes in leaf nitrogen and carbohydrates underlie temperature and CO ₂ acclimation of dark respiration in five boreal tree species. <i>Plant, Cell and Environment</i> , 1999, 22, 767-778.	5.7	192
153	Leaf Carbon and Nutrient Assimilation and Conservation in Species of Differing Successional Status in an Oligotrophic Amazonian Forest. <i>Functional Ecology</i> , 1995, 9, 65.	3.6	187
154	Hydraulic trade-offs and space filling enable better predictions of vascular structure and function in plants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 22722-22727.	7.1	186
155	Lack of functional redundancy in the relationship between microbial diversity and ecosystem functioning. <i>Journal of Ecology</i> , 2016, 104, 936-946.	4.0	185
156	Photosynthesis-nitrogen relations in Amazonian tree species. <i>Oecologia</i> , 1994, 97, 73-81.	2.0	184
157	Mechanisms responsible for the positive diversity-productivity relationship in Minnesota grasslands. <i>Ecology Letters</i> , 2004, 7, 661-668.	6.4	184
158	Tree species effects on coupled cycles of carbon, nitrogen, and acidity in mineral soils at a common garden experiment. <i>Biogeochemistry</i> , 2012, 111, 601-614.	3.5	184
159	The scaling of leaf area and mass: the cost of light interception increases with leaf size. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2007, 274, 2109-2115.	2.6	183
160	Functional identity is the main driver of diversity effects in young tree communities. <i>Ecology Letters</i> , 2016, 19, 638-647.	6.4	182
161	Invasions: the trail behind, the path ahead, and a test of a disturbing idea. <i>Journal of Ecology</i> , 2012, 100, 116-127.	4.0	180
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318	Restoring Savanna Using Fire: Impact on the Breeding Bird Community. <i>Restoration Ecology</i> , 2000, 8, 30-40.	2.9	84
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323	Photosynthesis and Leaf Nitrogen in Five Amazonian Tree Species During Early Secondary Succession. <i>Ecology</i> , 1996, 77, 581-594.	3.2	83
324	Shared ectomycorrhizal fungi between a herbaceous perennial (<i>Helianthemum bicknellii</i>) and oak (<i>Quercus</i>) in a BT/Overlook 10 Tfs	7.3	83

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326	Does physiological acclimation to climate warming stabilize the ratio of canopy respiration to photosynthesis?. <i>New Phytologist</i> , 2016, 211, 850-863.	7.3	82
327	Leaf-level light compensation points in shade-tolerant woody seedlings. <i>New Phytologist</i> , 2005, 166, 710-713.	7.3	81
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329	Response of <i>Ulmus americana</i> seedlings to varying nitrogen and water status. 1 Photosynthesis and growth. <i>Tree Physiology</i> , 1989, 5, 159-172.	3.1	80
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331	The effect of experimental warming and precipitation change on proteolytic enzyme activity: positive feedbacks to nitrogen availability are not universal. <i>Global Change Biology</i> , 2012, 18, 2617-2625.	9.5	80
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344	Warming alters energetic structure and function but not resilience of soil food webs. <i>Nature Climate Change</i> , 2017, 7, 895-900.	18.8	75
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468	Loss of Stomatal Function in Ageing Hybrid Poplar Leaves. <i>Annals of Botany</i> , 1984, 53, 691-698.	2.9	43

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480	Response of Soybean to Low Concentrations of Ozone: II. Effects on Growth, Biomass Allocation, and Flowering. <i>Journal of Environmental Quality</i> , 1986, 15, 161-167.	2.0	41
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482	Coppicing affects growth, root:shoot relations and ecophysiology of potted <i>Quercus rubra</i> seedlings. <i>Physiologia Plantarum</i> , 1993, 89, 751-760.	5.2	41
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486	Effects of density and ontogeny on size and growth ranks of three competing tree species. <i>Journal of Ecology</i> , 2009, 97, 277-288.	4.0	41

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489	Decadal changes in fire frequencies shift tree communities and functional traits. <i>Nature Ecology and Evolution</i> , 2021, 5, 504-512.	7.8	41
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503	Water Relations: Soil Fertility, and Plant Nutrient Composition of a Pygmy Oak Ecosystem. <i>Ecology</i> , 1980, 61, 400-416.	3.2	38
504	Dark respiration rate increases with plant size in saplings of three temperate tree species despite decreasing tissue nitrogen and nonstructural carbohydrates. <i>Tree Physiology</i> , 2006, 26, 915-923.	3.1	38

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506	Biogeographic differences in shoot elongation pattern among European Scots pine populations. <i>Forest Ecology and Management</i> , 2001, 148, 207-220.	3.2	37
507	Strong ecological but weak evolutionary effects of elevated CO ₂ on a recombinant inbred population of <i>Arabidopsis thaliana</i> . <i>New Phytologist</i> , 2007, 175, 351-362.	7.3	37
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509	Community phylogenetic diversity and abiotic site characteristics influence abundance of the invasive plant <i>Rhamnus cathartica</i> L.. <i>Journal of Plant Ecology</i> , 2014, 7, 202-209.	2.3	37
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545	Indirect effects drive evolutionary responses to global change. <i>New Phytologist</i> , 2014, 201, 335-343.	7.3	31
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549	Soil enzymes as indicators of soil function: A step toward greater realism in microbial ecological modeling. <i>Global Change Biology</i> , 2022, 28, 1935-1950.	9.5	31
550	Responses of hardwood regeneration to fire in mesic forest openings. III. Whole-plant growth, biomass distribution, and nitrogen and carbohydrate relations. <i>Canadian Journal of Forest Research</i> , 1997, 27, 1841-1850.	1.7	30
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552	Fine-scale heterogeneity in overstory composition contributes to heterogeneity of wildfire severity in southern boreal forest. <i>Journal of Forest Research</i> , 2011, 16, 203-214.	1.4	30
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554	Partitioning the effect of composition and diversity of tree communities on leaf litter decomposition and soil respiration. <i>Oikos</i> , 2017, 126, 959-971.	2.7	30
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556	Altered root growth and plant chemistry of <i>Pinus sylvestris</i> seedlings subjected to aluminum in nutrient solution. <i>Trees - Structure and Function</i> , 1996, 10, 135-144.	1.9	29
557	Local ecotypic and species range-related adaptation influence photosynthetic temperature optima in deciduous broadleaved trees. <i>Plant Ecology</i> , 2012, 213, 113-125.	1.6	29
558	Potential and limitations of inferring ecosystem photosynthetic capacity from leaf functional traits. <i>Ecology and Evolution</i> , 2016, 6, 7352-7366.	1.9	29

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564	A traits-based test of the home-field advantage in mixed-species tree litter decomposition. <i>Annals of Botany</i> , 2015, 116, 781-788.	2.9	28
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567	Reviews and syntheses: Field data to benchmark the carbon cycle models for tropical forests. <i>Biogeosciences</i> , 2017, 14, 4663-4690.	3.3	27
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574	Title is missing!. <i>Plant and Soil</i> , 2003, 250, 39-47.	3.7	25
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583	Do tall trees scale physiological heights?. <i>Trends in Ecology and Evolution</i> , 2000, 15, 41-42.	8.7	24
584	Below-ground resources limit seedling growth in forest understories but do not alter biomass distribution. <i>Annals of Forest Science</i> , 2003, 60, 319-330.	2.0	24
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590	Interaction of elevated CO ₂ and O ₃ on growth, photosynthesis and respiration of three perennial species grown in low and high nitrogen. <i>Physiologia Plantarum</i> , 1996, 97, 674-684.	5.2	24
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592	Title is missing!. <i>Water, Air, and Soil Pollution</i> , 1999, 110, 195-212.	2.4	23
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602	Comparing indices of understory light availability between hemlock and hardwood forest patches. <i>Canadian Journal of Forest Research</i> , 2009, 39, 1949-1957.	1.7	21
603	Legumes regulate grassland soil N cycling and its response to variation in species diversity and N supply but not CO ₂ . <i>Global Change Biology</i> , 2019, 25, 2396-2409.	9.5	21
604	Similar factors underlie tree abundance in forests in native and alien ranges. <i>Global Ecology and Biogeography</i> , 2020, 29, 281-294.	5.8	21
605	Herbivore and pathogen damage on grassland and woodland plants: a test of the herbivore uncertainty principle. <i>Ecology Letters</i> , 2002, 5, 531-539.	6.4	20
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607	Elevated atmospheric CO ₂ : a nurse plant substitute for oak seedlings establishing in old fields. <i>Global Change Biology</i> , 2007, 13, 2308-2316.	9.5	20
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609	Warming shifts "worming": effects of experimental warming on invasive earthworms in northern North America. <i>Scientific Reports</i> , 2014, 4, 6890.	3.3	20
610	Microbial functional genes commonly respond to elevated carbon dioxide. <i>Environment International</i> , 2020, 144, 106068.	10.0	20
611	Antagonistic effects of species on C respiration and net N mineralization in soils from mixed coniferous plantations. <i>Forest Ecology and Management</i> , 2009, 257, 1112-1118.	3.2	19
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615	Seven Ways a Warming Climate Can Kill the Southern Boreal Forest. <i>Forests</i> , 2021, 12, 560.	2.1	19
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618	Altered root growth and plant chemistry of <i>Pinus sylvestris</i> seedlings subjected to aluminum in nutrient solution. <i>Trees - Structure and Function</i> , 1996, 10, 135-144.	1.9	19
619	New cohort growth and survival in variable retention harvests of a pine ecosystem in Minnesota, USA. <i>Forest Ecology and Management</i> , 2013, 310, 327-335.	3.2	18
620	Trade-offs in juvenile growth potential vs. shade tolerance among subtropical rain forest trees on soils of contrasting fertility. <i>Functional Ecology</i> , 2016, 30, 845-855.	3.6	18
621	Implications of contrasted above- and below-ground biomass responses in a diversity experiment with trees. <i>Journal of Ecology</i> , 2020, 108, 405-414.	4.0	18
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625	Becoming less tolerant with age: sugar maple, shade, and ontogeny. <i>Oecologia</i> , 2015, 179, 1011-1021.	2.0	17
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