Peter B Reich

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/9300040/publications.pdf

Version: 2024-02-01

726	124,068	106	188
papers	citations	164 h-index	317 g-index

759	759	759	52335
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	Wheat respiratory O2 consumption falls with night warming alongside greater respiratory CO2 loss and reduced biomass. Journal of Experimental Botany, 2022, 73, 915-926.	2.4	11
3	Biodiversity promotes ecosystem functioning despite environmental change. Ecology Letters, 2022, 25, 555-569.	3.0	85
4	The number of tree species on Earth. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	86
5	Contrasting responses of woody and grassland ecosystems to increased CO2 as water supply varies. Nature Ecology and Evolution, 2022, 6, 315-323.	3.4	15
6	No complementarity no gainâ€"Net diversity effects on tree productivity occur once complementarity emerges during early stand development. Ecology Letters, 2022, 25, 851-862.	3.0	19
7	Climatic and soil factors explain the two-dimensional spectrum of global plant trait variation. Nature Ecology and Evolution, 2022, 6, 36-50.	3.4	89
8	Tree diversity effects on soil microbial biomass and respiration are context dependent across forest diversity experiments. Global Ecology and Biogeography, 2022, 31, 872-885.	2.7	16
9	Nitrogen concentration and physical properties are key drivers of woody tissue respiration. Annals of Botany, 2022, 129, 633-646.	1.4	4
10	Wind and fire: Rapid shifts in tree community composition following multiple disturbances in the southern boreal forest. Ecosphere, 2022, 13, .	1.0	5
11	Increasing Functional Diversity in a Global Land Surface Model Illustrates Uncertainties Related to Parameter Simplification. Journal of Geophysical Research G: Biogeosciences, 2022, 127, .	1.3	6
12	Soil enzymes as indicators of soil function: A step toward greater realism in microbial ecological modeling. Global Change Biology, 2022, 28, 1935-1950.	4.2	31
13	Evidence, causes, and consequences of declining nitrogen availability in terrestrial ecosystems. Science, 2022, 376, eabh3767.	6.0	100
14	Explanations for nitrogen declineâ€"Response. Science, 2022, 376, 1170-1170.	6.0	2
15	Afforestation can lower microbial diversity and functionality in deep soil layers in a semiarid region. Global Change Biology, 2022, 28, 6086-6101.	4.2	40
16	Negative to positive shifts in diversity effects on soil nitrogen over time. Nature Sustainability, 2021, 4, 225-232.	11.5	67
17	Revegetation to slow buckthorn reinvasion: strengths and limits of evaluating management techniques retrospectively. Restoration Ecology, 2021, 29, .	1.4	5
18	A graphical null model for scaling biodiversityâ€"ecosystem functioning relationships. Journal of Ecology, 2021, 109, 1549-1560.	1.9	12

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19	Remote spectral detection of biodiversity effects on forest biomass. Nature Ecology and Evolution, 2021, 5, 46-54.	3.4	33
20	Short- and long-term responses of photosynthetic capacity to temperature in four boreal tree species in a free-air warming and rainfall manipulation experiment. Tree Physiology, 2021, 41, 89-102.	1.4	10
21	Global root traits (GRooT) database. Global Ecology and Biogeography, 2021, 30, 25-37.	2.7	90
22	Species-specific flowering phenology responses to experimental warming and drought alter herbaceous plant species overlap in a temperateâ€“boreal forest community. Annals of Botany, 2021, 127, 203-211.	1.4	9
23	Decadal changes in fire frequencies shift tree communities and functional traits. Nature Ecology and Evolution, 2021, 5, 504-512.	3.4	41
24	Enhanced light interception and light use efficiency explain overyielding in young tree communities. Ecology Letters, 2021, 24, 996-1006.	3.0	24
25	Erosion reduces soil microbial diversity, network complexity and multifunctionality. ISME Journal, 2021, 15, 2474-2489.	4.4	273
26	A trade-off between plant and soil carbon storage under elevated CO2. Nature, 2021, 591, 599-603.	13.7	268
27	Disease and fire interact to influence transitions between savannaâ€“forest ecosystems over a multiâ€decadal experiment. Ecology Letters, 2021, 24, 1007-1017.	3.0	11
28	Biotic homogenization destabilizes ecosystem functioning by decreasing spatial asynchrony. Ecology, 2021, 102, e03332.	1.5	74
29	Assessing the relevant time frame for temperature acclimation of leaf dark respiration: A test with 10 boreal and temperate species. Global Change Biology, 2021, 27, 2945-2958.	4.2	8
30	Sensitivity of grassland carbon pools to plant diversity, elevated CO ₂ , and soil nitrogen addition over 19 years. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	25
31	Seven Ways a Warming Climate Can Kill the Southern Boreal Forest. Forests, 2021, 12, 560.	0.9	19
32	Root traits explain plant species distributions along climatic gradients yet challenge the nature of ecological trade-offs. Nature Ecology and Evolution, 2021, 5, 1123-1134.	3.4	62
33	Biodiversityâ€“productivity relationships are key to nature-based climate solutions. Nature Climate Change, 2021, 11, 543-550.	8.1	77
34	Determinants of community compositional change are equally affected by global change. Ecology Letters, 2021, 24, 1892-1904.	3.0	27
35	Tree species diversity enhances plant-soil interactions in a temperate forest in northeast China. Forest Ecology and Management, 2021, 491, 119160.	1.4	10
36	Exotics are more complementary over time in tree biodiversityâ€“ecosystem functioning experiments. Functional Ecology, 2021, 35, 2550.	1.7	2

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37	Projected impacts of climate and land use changes on the habitat of Atlantic Forest plants in Brazil. Global Ecology and Biogeography, 2021, 30, 2016-2028.	2.7	12
38	The three major axes of terrestrial ecosystem function. Nature, 2021, 598, 468-472.	13.7	99
39	Updated respiration routines alter spatio-temporal patterns of carbon cycling in a global land surface model. Environmental Research Letters, 2021, 16, 104015.	2.2	3
40	Phenological niche overlap between invasive buckthorn (Rhamnus cathartica) and native woody species. Forest Ecology and Management, 2021, 498, 119568.	1.4	5
41	Promise and pitfalls of modeling grassland soil moisture in a free-air CO2 enrichment experiment (BioCON) using the SHAW model. Pedosphere, 2021, 31, 783-795.	2.1	1
42	Grand challenges in biodiversityâ€“ecosystem functioning research in the era of scienceâ€“policy platforms require explicit consideration of feedbacks. Proceedings of the Royal Society B: Biological Sciences, 2021, 288, 20210783.	1.2	8
43	Biogeographic variation in temperature sensitivity of decomposition in forest soils. Global Change Biology, 2020, 26, 1873-1885.	4.2	49
44	Limited evidence for spatial resource partitioning across temperate grassland biodiversity experiments. Ecology, 2020, 101, e02905.	1.5	40
45	Implications of contrasted aboveâ€and belowâ€ground biomass responses in a diversity experiment with trees. Journal of Ecology, 2020, 108, 405-414.	1.9	18
46	Surprising lack of sensitivity of biochemical limitation of photosynthesis of nine tree species to openâ€air experimental warming and reduced rainfall in a southern boreal forest. Global Change Biology, 2020, 26, 746-759.	4.2	26
47	Global fern and lycophyte richness explained: How regional and local factors shape plot richness. Journal of Biogeography, 2020, 47, 59-71.	1.4	40
48	Fine root classification matters: nutrient levels in different functional categories, orders and diameters of roots in boreal Pinus sylvestris across a latitudinal gradient. Plant and Soil, 2020, 447, 507-520.	1.8	12
49	TRY plant trait database â€“ enhanced coverage and open access. Global Change Biology, 2020, 26, 119-188.	4.2	1,038
50	Similar factors underlie tree abundance in forests in native and alien ranges. Global Ecology and Biogeography, 2020, 29, 281-294.	2.7	21
51	Growingâ€season temperature and precipitation are independent drivers of global variation in xylem hydraulic conductivity. Global Change Biology, 2020, 26, 1833-1841.	4.2	36
52	Variation and evolution of C:N ratio among different organs enable plants to adapt to Nâ€limited environments. Global Change Biology, 2020, 26, 2534-2543.	4.2	124
53	Increased light availability due to forestry mowing of invasive European buckthorn promotes its regeneration. Restoration Ecology, 2020, 28, 475-482.	1.4	5
54	Light mediates the relationship between community diversity and trait plasticity in functionally and phylogenetically diverse tree mixtures. Journal of Ecology, 2020, 108, 1617-1634.	1.9	23

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55	Extinction risk and threats to plants and fungi. Plants People Planet, 2020, 2, 389-408.	1.6	242
56	Microbial functional genes commonly respond to elevated carbon dioxide. Environment International, 2020, 144, 106068.	4.8	20
57	Climate-Biome Envelope Shifts Create Enormous Challenges and Novel Opportunities for Conservation. Forests, 2020, 11, 1015.	0.9	12
58	An alternative, portable method for extracting microarthropods from forest soil. Acta Oecologica, 2020, 109, 103655.	0.5	3
59	Evolutionary patterns in the geographic range size of Atlantic Forest plants. Ecography, 2020, 43, 1510-1520.	2.1	15
60	Low phosphorus supply constrains plant responses to elevated CO₂: A metaâ€analysis. Global Change Biology, 2020, 26, 5856-5873.	4.2	37
61	Improving collaborations between empiricists and modelers to advance grassland community dynamics in ecosystem models. New Phytologist, 2020, 228, 1467-1471.	3.5	5
62	Synergistic effects of four climate change drivers on terrestrial carbon cycling. Nature Geoscience, 2020, 13, 787-793.	5.4	45
63	Seeing the Canopy for the Branches: Improved Within Canopy Scaling of Leaf Nitrogen. Journal of Advances in Modeling Earth Systems, 2020, 12, e2020MS002237.	1.3	2
64	Rising Temperature May Trigger Deep Soil Carbon Loss Across Forest Ecosystems. Advanced Science, 2020, 7, 2001242.	5.6	42
65	Temporal variability in production is not consistently affected by global change drivers across herbaceous-dominated ecosystems. Oecologia, 2020, 194, 735-744.	0.9	8
66	General destabilizing effects of eutrophication on grassland productivity at multiple spatial scales. Nature Communications, 2020, 11, 5375.	5.8	75
67	Diversityâ€dependent soil acidification under nitrogen enrichment constrains biomass productivity. Global Change Biology, 2020, 26, 6594-6603.	4.2	31
68	The results of biodiversityâ€“ecosystem functioning experiments are realistic. Nature Ecology and Evolution, 2020, 4, 1485-1494.	3.4	93
69	A fingerprint of climate change across pine forests of Sweden. Ecology Letters, 2020, 23, 1739-1746.	3.0	5
70	The influence of soil age on ecosystem structure and function across biomes. Nature Communications, 2020, 11, 4721.	5.8	47
71	Late-spring frost risk between 1959 and 2017 decreased in North America but increased in Europe and Asia. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 12192-12200.	3.3	140
72	Warming and disturbance alter soil microbiome diversity and function in a northern forest ecotone. FEMS Microbiology Ecology, 2020, 96, .	1.3	14

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73	Testing Darwinâ€™s naturalization conundrum based on taxonomic, phylogenetic, and functional dimensions of vascular plants. Ecological Monographs, 2020, 90, e01420.	2.4	19
74	Interactive effects of elevated <scp>CO₂</scp>, warming, reduced rainfall, and nitrogen on leaf gas exchange in five perennial grassland species. Plant, Cell and Environment, 2020, 43, 1862-1878.	2.8	17
75	Fosamine ammonium impacts on the targeted invasive shrub Rhamnus cathartica and non-target herbs. Invasive Plant Science and Management, 2020, 13, 210-215.	0.5	3
76	No evidence of homeostatic regulation of leaf temperature in Eucalyptus parramattensis trees: integration of CO₂ flux and oxygen isotope methodologies. New Phytologist, 2020, 228, 1511-1523.	3.5	18
77	The fate of carbon in a mature forest under carbon dioxide enrichment. Nature, 2020, 580, 227-231.	13.7	218
78	Global plant trait relationships extend to the climatic extremes of the tundra biome. Nature Communications, 2020, 11, 1351.	5.8	52
79	Repeated fire shifts carbon and nitrogen cycling by changing plant inputs and soil decomposition across ecosystems. Ecological Monographs, 2020, 90, e01409.	2.4	47
80	Acclimation of leaf respiration consistent with optimal photosynthetic capacity. Global Change Biology, 2020, 26, 2573-2583.	4.2	64
81	Frequent burning causes large losses of carbon from deep soil layers in a temperate savanna. Journal of Ecology, 2020, 108, 1426-1441.	1.9	23
82	Does root respiration in Australian rainforest tree seedlings acclimate to experimental warming?. Tree Physiology, 2020, 40, 1192-1204.	1.4	19
83	Phenology matters: Extended spring and autumn canopy cover increases biotic resistance of forests to invasion by common buckthorn (Rhamnus cathartica). Forest Ecology and Management, 2020, 464, 118067.	1.4	14
84	Leaf size of woody dicots predicts ecosystem primary productivity. Ecology Letters, 2020, 23, 1003-1013.	3.0	41
85	Phenological responses of temperate and boreal trees to warming depend on ambient spring temperatures, leaf habit, and geographic range. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 10397-10405.	3.3	65
86	Remarkable Similarity in Timing of Absorptive Fine-Root Production Across 11 Diverse Temperate Tree Species in a Common Garden. Frontiers in Plant Science, 2020, 11, 623722.	1.7	10
87	Multiple elements of soil biodiversity drive ecosystem functions across biomes. Nature Ecology and Evolution, 2020, 4, 210-220.	3.4	543
88	Stimulation of soil respiration by elevated CO₂is enhanced under nitrogen limitation in a decade-long grassland study. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 33317-33324.	3.3	34
89	Recent deforestation drove the spike in Amazonian fires. Environmental Research Letters, 2020, 15, 121003.	2.2	46
90	Century-scale wood nitrogen isotope trajectories from an oak savanna with variable fire frequencies. Biogeosciences, 2020, 17, 4509-4522.	1.3	4

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91	Intraspecific variation in soy across the leaf economics spectrum. Annals of Botany, 2019, 123, 107-120.	1.4	36
92	The scaling of fine root nitrogen versus phosphorus in terrestrial plants: A global synthesis. Functional Ecology, 2019, 33, 2081-2094.	1.7	35
93	Nitrogen and phosphorus constrain the CO2 fertilization of global plant biomass. Nature Climate Change, 2019, 9, 684-689.	8.1	269
94	Non-symbiotic soil microbes are more strongly influenced by altered tree biodiversity than arbuscular mycorrhizal fungi during initial forest establishment. FEMS Microbiology Ecology, 2019, 95, .	1.3	3
95	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
96	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
97	Sideâ€swiped: ecological cascades emanating from earthworm invasions. Frontiers in Ecology and the Environment, 2019, 17, 502-510.	1.9	60
98	Robustness of trait connections across environmental gradients and growth forms. Global Ecology and Biogeography, 2019, 28, 1806-1826.	2.7	56
99	Leaf economics and plant hydraulics drive leaf : wood area ratios. New Phytologist, 2019, 224, 1544-1556.	3.5	77
100	Plant-driven niche differentiation of ammonia-oxidizing bacteria and archaea in global drylands. ISME Journal, 2019, 13, 2727-2736.	4.4	47
101	Strong photosynthetic acclimation and enhanced waterâ€use efficiency in grassland functional groups persist over 21Âyears of CO₂ enrichment, independent of nitrogen supply. Global Change Biology, 2019, 25, 3031-3044.	4.2	32
102	Climatic controls of decomposition drive the global biogeography of forest-tree symbioses. Nature, 2019, 569, 404-408.	13.7	371
103	When Do Ecosystem Services Depend on Rare Species?. Trends in Ecology and Evolution, 2019, 34, 746-758.	4.2	159
104	Diversityâ€dependent plantâ€“soil feedbacks underlie longâ€term plant diversity effects on primary productivity. Ecosphere, 2019, 10, e02704.	1.0	26
105	Losses in microbial functional diversity reduce the rate of key soil processes. Soil Biology and Biochemistry, 2019, 135, 267-274.	4.2	65
106	Soil microbial, nematode, and enzymatic responses to elevated CO2, N fertilization, warming, and reduced precipitation. Soil Biology and Biochemistry, 2019, 135, 184-193.	4.2	64
107	Long-Term Nitrogen Addition Does Not Increase Soil Carbon Storage or Cycling Across Eight Temperate Forest and Grassland Sites on a Sandy Outwash Plain. Ecosystems, 2019, 22, 1592-1605.	1.6	16
108	Speciesâ€rich boreal forests grew more and suffered less mortality than speciesâ€poor forests under the environmental change of the past halfâ€century. Ecology Letters, 2019, 22, 999-1008.	3.0	39

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109	Legumes regulate grassland soil N cycling and its response to variation in species diversity and N supply but not CO₂. Global Change Biology, 2019, 25, 2396-2409.	4.2	21
110	Globally consistent influences of seasonal precipitation limit grassland biomass response to elevated CO2. Nature Plants, 2019, 5, 167-173.	4.7	51
111	Range size and growth temperature influence Eucalyptus species responses to an experimental heatwave. Global Change Biology, 2019, 25, 1665-1684.	4.2	44
112	Traits linked with species invasiveness and community invasibility vary with time, stage and indicator of invasion in a longâ€term grassland experiment. Ecology Letters, 2019, 22, 593-604.	3.0	103
113	Climate change effects on plant-soil feedbacks and consequences for biodiversity and functioning of terrestrial ecosystems. Science Advances, 2019, 5, eaaz1834.	4.7	245
114	Deficits of biodiversity and productivity linger a century after agricultural abandonment. Nature Ecology and Evolution, 2019, 3, 1533-1538.	3.4	98
115	Global changes alter plant multiâ€element stoichiometric coupling. New Phytologist, 2019, 221, 807-817.	3.5	110
116	Soil organic carbon stability in forests: Distinct effects of tree species identity and traits. Global Change Biology, 2019, 25, 1529-1546.	4.2	104
117	Acclimation and adaptation components of the temperature dependence of plant photosynthesis at the global scale. New Phytologist, 2019, 222, 768-784.	3.5	171
118	Neighborhood diversity simultaneously increased and decreased susceptibility to contrasting herbivores in an early stage forest diversity experiment. Journal of Ecology, 2019, 107, 1492-1505.	1.9	22
119	Traditional plant functional groups explain variation in economic but not sizeâ€related traits across the tundra biome. Global Ecology and Biogeography, 2019, 28, 78-95.	2.7	49
120	The partitioning of gross primary production for young Eucalyptus tereticornis trees under experimental warming and altered water availability. New Phytologist, 2019, 222, 1298-1312.	3.5	34
121	Allometry of fine roots in forest ecosystems. Ecology Letters, 2019, 22, 322-331.	3.0	37
122	Predicting soil carbon loss with warming. Nature, 2018, 554, E4-E5.	13.7	122
123	Early stage litter decomposition across biomes. Science of the Total Environment, 2018, 628-629, 1369-1394.	3.9	177
124	Quantifying effects of biodiversity on ecosystem functioning across times and places. Ecology Letters, 2018, 21, 763-778.	3.0	157
125	Unexpected reversal of C ₃ versus C ₄ grass response to elevated CO ₂ during a 20-year field experiment. Science, 2018, 360, 317-320.	6.0	212
126	Shifting plant species composition in response to climate change stabilizes grassland primary production. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 4051-4056.	3.3	431

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127	Size-related shifts in carbon gain and growth responses to light differ among rainforest evergreens of contrasting shade tolerance. Oecologia, 2018, 187, 609-623.	0.9	6
128	Future global productivity will be affected by plant trait response to climate. Scientific Reports, 2018, 8, 2870.	1.6	95
129	Reduced feeding activity of soil detritivores under warmer and drier conditions. Nature Climate Change, 2018, 8, 75-78.	8.1	117
130	A tale of two studies: Detection and attribution of the impacts of invasive plants in observational surveys. Journal of Applied Ecology, 2018, 55, 1780-1789.	1.9	6
131	Intraspecies variation in a widely distributed tree species regulates the responses of soil microbiome to different temperature regimes. Environmental Microbiology Reports, 2018, 10, 167-178.	1.0	8
132	Synthesis and future research directions linking tree diversity to growth, survival, and damage in a global network of tree diversity experiments. Environmental and Experimental Botany, 2018, 152, 68-89.	2.0	113
133	Trees tolerate an extreme heatwave via sustained transpirational cooling and increased leaf thermal tolerance. Global Change Biology, 2018, 24, 2390-2402.	4.2	242
134	Global leaf nitrogen and phosphorus stoichiometry and their scaling exponent. National Science Review, 2018, 5, 728-739.	4.6	121
135	Biodiversity bottleneck: seedling establishment under changing climatic conditions at the borealâ€“temperate ecotone. Plant Ecology, 2018, 219, 691-704.	0.7	11
136	Response to comment on â€œClimate legacies drive global soil carbon stocks in terrestrial ecosystemâ€• Science Advances, 2018, 4, eaat1296.	4.7	1
137	Aridity Decouples C:N:P Stoichiometry Across Multiple Trophic Levels in Terrestrial Ecosystems. Ecosystems, 2018, 21, 459-468.	1.6	40
138	Effect of Simulated Climate Warming on the Ectomycorrhizal Fungal Community of Boreal and Temperate Host Species Growing Near Their Shared Ecotonal Range Limits. Microbial Ecology, 2018, 75, 348-363.	1.4	34
139	Fire frequency drives decadal changes in soil carbon and nitrogen and ecosystem productivity. Nature, 2018, 553, 194-198.	13.7	325
140	Ecosystem responses to elevated <scp>CO</scp>₂ governed by plantâ€“soil interactions and the cost of nitrogen acquisition. New Phytologist, 2018, 217, 507-522.	3.5	139
141	Global traitâ€“environment relationships of plant communities. Nature Ecology and Evolution, 2018, 2, 1906-1917.	3.4	397
142	A methodology to derive global maps of leaf traits using remote sensing and climate data. Remote Sensing of Environment, 2018, 218, 69-88.	4.6	104
143	Effects of climate warming on photosynthesis in boreal tree species depend on soil moisture. Nature, 2018, 562, 263-267.	13.7	248
144	Plant functional trait change across a warming tundra biome. Nature, 2018, 562, 57-62.	13.7	451

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145	Ambient changes exceed treatment effects on plant species abundance in global change experiments. Global Change Biology, 2018, 24, 5668-5679.	4.2	25
146	Climate and soils together regulate photosynthetic carbon isotope discrimination within C₃ plants worldwide. Global Ecology and Biogeography, 2018, 27, 1056-1067.	2.7	85
147	Response to Comment on â€œUnexpected reversal of C ₃ versus C ₄ grass response to elevated CO ₂ during a 20-year field experimentâ€. Science, 2018, 361, .	6.0	7
148	Legume abundance along successional and rainfall gradients in Neotropical forests. Nature Ecology and Evolution, 2018, 2, 1104-1111.	3.4	107
149	Experimentally testing the species-habitat size relationship on soil bacteria: A proof of concept. Soil Biology and Biochemistry, 2018, 123, 200-206.	4.2	13
150	Springtail community structure is influenced by functional traits but not biogeographic origin of leaf litter in soils of novel forest ecosystems. Proceedings of the Royal Society B: Biological Sciences, 2018, 285, 20180647.	1.2	10
151	Shrub type dominates the vertical distribution of leaf Câ€¯:â€¯Nâ€¯:â€¯P stoichiometry across an extensive altitudinal gradient. Biogeosciences, 2018, 15, 2033-2053.	1.3	24
152	BioTIME: A database of biodiversity time series for the Anthropocene. Global Ecology and Biogeography, 2018, 27, 760-786.	2.7	289
153	Amur maple (Acer ginnala): an emerging invasive plant in North America. Biological Invasions, 2018, 20, 2997-3007.	1.2	5
154	Divergent drivers of leaf trait variation within species, among species, and among functional groups. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 5480-5485.	3.3	94
155	Do plants increase resource acquisition potential in the face of resource shortfalls, and if so, how?. New Phytologist, 2018, 219, 1142-1144.	3.5	8
156	Multiple facets of biodiversity drive the diversityâ€“stability relationship. Nature Ecology and Evolution, 2018, 2, 1579-1587.	3.4	296
157	Combinations of Abiotic Factors Differentially Alter Production of Plant Secondary Metabolites in Five Woody Plant Species in the Boreal-Temperate Transition Zone. Frontiers in Plant Science, 2018, 9, 1257.	1.7	74
158	Response to Comment on â€œUnexpected reversal of C ₃ versus C ₄ grass response to elevated CO ₂ during a 20-year field experimentâ€. Science, 2018, 361, .	6.0	3
159	Three years of soil respiration in a mature eucalypt woodland exposed to atmospheric CO2 enrichment. Biogeochemistry, 2018, 139, 85-101.	1.7	17
160	Experimental warming advances phenology of groundlayer plants at the borealâ€temperate forest ecotone. American Journal of Botany, 2018, 105, 851-861.	0.8	25
161	Invasive plants in Minnesota are â€œjoining the localsâ€: A traitâ€based analysis. Journal of Vegetation Science, 2018, 29, 746-755.	1.1	6
162	Using revegetation to suppress invasive plants in grasslands and forests. Journal of Applied Ecology, 2018, 55, 2362-2373.	1.9	47

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163	Plant diversity maintains multiple soil functions in future environments. ELife, 2018, 7, .	2.8	54
164	Response to Comment on â€œMycorrhizal association as a primary control of the CO ₂ fertilization effectâ€• Science, 2017, 355, 358-358.	6.0	4
165	Spatial complementarity in tree crowns explains overyielding in species mixtures. Nature Ecology and Evolution, 2017, 1, 63.	3.4	285
166	Elevated CO2 does not increase eucalypt forest productivity on a low-phosphorus soil. Nature Climate Change, 2017, 7, 279-282.	8.1	198
167	Climate, soil and plant functional types as drivers of global fineâ€root trait variation. Journal of Ecology, 2017, 105, 1182-1196.	1.9	234
168	Climate legacies drive global soil carbon stocks in terrestrial ecosystems. Science Advances, 2017, 3, e1602008.	4.7	91
169	Disentangling species and functional group richness effects on soil N cycling in a grassland ecosystem. Global Change Biology, 2017, 23, 4717-4727.	4.2	24
170	Peeking beneath the hood of the leaf economics spectrum. New Phytologist, 2017, 214, 1395-1397.	3.5	23
171	Microbial richness and composition independently drive soil multifunctionality. Functional Ecology, 2017, 31, 2330-2343.	1.7	126
172	A common thermal niche among geographically diverse populations of the widely distributed tree species Eucalyptus tereticornis: No evidence for adaptation to climateâ€ofâ€origin. Global Change Biology, 2017, 23, 5069-5082.	4.2	38
173	The changing role of fire in mediating the relationships among oaks, grasslands, mesic temperate forests, and boreal forests in the Lake States. Journal of Sustainable Forestry, 2017, 36, 421-432.	0.6	17
174	The economic value of grassland species for carbon storage. Science Advances, 2017, 3, e1601880.	4.7	96
175	A global traitâ€based approach to estimate leaf nitrogen functional allocation from observations. Ecological Applications, 2017, 27, 1421-1434.	1.8	59
176	Tertiary remnants and Holocene colonizers: Genetic structure and phylogeography of Scots pine reveal higher genetic diversity in young boreal than in relict Mediterranean populations and a dual colonization of Fennoscandia. Diversity and Distributions, 2017, 23, 540-555.	1.9	39
177	Building a better foundation: improving rootâ€trait measurements to understand and model plant and ecosystem processes. New Phytologist, 2017, 215, 27-37.	3.5	159
178	Metagenomic reconstruction of nitrogen cycling pathways in a CO2-enriched grassland ecosystem. Soil Biology and Biochemistry, 2017, 106, 99-108.	4.2	63
179	It is elemental: soil nutrient stoichiometry drives bacterial diversity. Environmental Microbiology, 2017, 19, 1176-1188.	1.8	242
180	Diversity-dependent temporal divergence of ecosystem functioning in experimental ecosystems. Nature Ecology and Evolution, 2017, 1, 1639-1642.	3.4	95

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181	Global climatic drivers of leaf size. Science, 2017, 357, 917-921.	6.0	580
182	Do temperate tree species diversity and identity influence soil microbial community function and composition?. Ecology and Evolution, 2017, 7, 7965-7974.	0.8	64
183	Species richness and traits predict overyielding in stem growth in an earlyâ€successional tree diversity experiment. Ecology, 2017, 98, 2601-2614.	1.5	68
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