

Will K Cornwell

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.

127
papers

16,892
citations

45
h-index

129
g-index

144
ext. papers

20,784
ext. citations

6.8
avg, IF

6.52
L-index

#	Paper	IF	Citations
127	Picante: R tools for integrating phylogenies and ecology. <i>Bioinformatics</i> , 2010 , 26, 1463-4	7.2	3021
126	TRY  global database of plant traits. <i>Global Change Biology</i> , 2011 , 17, 2905-2935	11.4	1623
125	Plant species traits are the predominant control on litter decomposition rates within biomes worldwide. <i>Ecology Letters</i> , 2008 , 11, 1065-71	10	1605
124	Three keys to the radiation of angiosperms into freezing environments. <i>Nature</i> , 2014 , 506, 89-92	50.4	896
123	Community assembly and shifts in plant trait distributions across an environmental gradient in coastal California. <i>Ecological Monographs</i> , 2009 , 79, 109-126	9	767
122	A trait-based test for habitat filtering: convex hull volume. <i>Ecology</i> , 2006 , 87, 1465-71	4.6	766
121	The effects of phenotypic plasticity and local adaptation on forecasts of species range shifts under climate change. <i>Ecology Letters</i> , 2014 , 17, 1351-64	10	583
120	A trait-based approach to community assembly: partitioning of species trait values into within- and among-community components. <i>Ecology Letters</i> , 2007 , 10, 135-45	10	534
119	Trait evolution, community assembly, and the phylogenetic structure of ecological communities. <i>American Naturalist</i> , 2007 , 170, 271-83	3.7	512
118	TRY plant trait database - enhanced coverage and open access. <i>Global Change Biology</i> , 2020 , 26, 119-188	11.4	399
117	The geography of climate change: implications for conservation biogeography. <i>Diversity and Distributions</i> , 2010 , 16, 476-487	5	383
116	Wood density and vessel traits as distinct correlates of ecological strategy in 51 California coast range angiosperms. <i>New Phytologist</i> , 2006 , 170, 807-18	9.8	320
115	Global meta-analysis of wood decomposition rates: a role for trait variation among tree species?. <i>Ecology Letters</i> , 2009 , 12, 45-56	10	313
114	Why are non-photosynthetic tissues generally C enriched compared with leaves in C plants? Review and synthesis of current hypotheses. <i>Functional Plant Biology</i> , 2009 , 36, 199-213	2.7	304
113	Linking litter decomposition of above- and below-ground organs to plant-soil feedbacks worldwide. <i>Journal of Ecology</i> , 2013 , 101, 943-952	6	265
112	Plant functional trait change across a warming tundra biome. <i>Nature</i> , 2018 , 562, 57-62	50.4	264
111	Plant traits and wood fates across the globe: rotted, burned, or consumed?. <i>Global Change Biology</i> , 2009 , 15, 2431-2449	11.4	244

110	Which is a better predictor of plant traits: temperature or precipitation?. <i>Journal of Vegetation Science</i> , 2014 , 25, 1167-1180	3.1	217
109	A global method for calculating plant CSR ecological strategies applied across biomes world-wide. <i>Functional Ecology</i> , 2017 , 31, 444-457	5.6	191
108	Global effects of soil and climate on leaf photosynthetic traits and rates. <i>Global Ecology and Biogeography</i> , 2015 , 24, 706-717	6.1	179
107	A single evolutionary innovation drives the deep evolution of symbiotic N ₂ -fixation in angiosperms. <i>Nature Communications</i> , 2014 , 5, 4087	17.4	173
106	Regional and local patterns in plant species richness with respect to resource availability. <i>Oikos</i> , 2003 , 100, 417-428	4	144
105	Towards a universal model for carbon dioxide uptake by plants. <i>Nature Plants</i> , 2017 , 3, 734-741	11.5	139
104	Taller and larger: shifts in Arctic tundra leaf traits after 16 years of experimental warming. <i>Global Change Biology</i> , 2011 , 17, 1013-1021	11.4	135
103	Global patterns of plant root colonization intensity by mycorrhizal fungi explained by climate and soil chemistry. <i>Global Ecology and Biogeography</i> , 2015 , 24, 371-382	6.1	126
102	Putting plant resistance traits on the map: a test of the idea that plants are better defended at lower latitudes. <i>New Phytologist</i> , 2011 , 191, 777-788	9.8	126
101	A link between plant traits and abundance: evidence from coastal California woody plants. <i>Journal of Ecology</i> , 2010 , 98, 814-821	6	110
100	Model Adequacy and the Macroevolution of Angiosperm Functional Traits. <i>American Naturalist</i> , 2015 , 186, E33-50	3.7	109
99	Global relationship of wood and leaf litter decomposability: the role of functional traits within and across plant organs. <i>Global Ecology and Biogeography</i> , 2014 , 23, 1046-1057	6.1	100
98	Correlations between physical and chemical defences in plants: tradeoffs, syndromes, or just many different ways to skin a herbivorous cat?. <i>New Phytologist</i> , 2013 , 198, 252-263	9.8	94
97	Plant-driven variation in decomposition rates improves projections of global litter stock distribution. <i>Biogeosciences</i> , 2012 , 9, 565-576	4.6	92
96	Global to community scale differences in the prevalence of convergent over divergent leaf trait distributions in plant assemblages. <i>Global Ecology and Biogeography</i> , 2011 , 20, 755-765	6.1	92
95	Functional distinctiveness of major plant lineages. <i>Journal of Ecology</i> , 2014 , 102, 345-356	6	87
94	Occurrence of arbuscular mycorrhizal fungi in a phosphorus-poor wetland and mycorrhizal response to phosphorus fertilization. <i>American Journal of Botany</i> , 2001 , 88, 1824-1829	2.7	80
93	Phylogenetic tests of community assembly across regional to continental scales in tropical and subtropical rain forests. <i>Global Ecology and Biogeography</i> , 2011 , 20, 707-716	6.1	79

92	Fungal functional ecology: bringing a trait-based approach to plant-associated fungi. <i>Biological Reviews</i> , 2020 , 95, 409-433	13.5	79
91	A rediscovered treasure: mycorrhizal intensity database for 3000 vascular plant species across the former Soviet Union. <i>Ecology</i> , 2012 , 93, 689-690	4.6	76
90	Leaf traits within communities: context may affect the mapping of traits to function. <i>Ecology</i> , 2013 , 94, 1893-7	4.6	73
89	Mutualism Persistence and Abandonment during the Evolution of the Mycorrhizal Symbiosis. <i>American Naturalist</i> , 2016 , 188, E113-E125	3.7	67
88	Burn or rot: leaf traits explain why flammability and decomposability are decoupled across species. <i>Functional Ecology</i> , 2015 , 29, 1486-1497	5.6	65
87	How much of the world is woody?. <i>Journal of Ecology</i> , 2014 , 102, 1266-1272	6	63
86	Generalists are the most urban-tolerant of birds: a phylogenetically controlled analysis of ecological and life history traits using a novel continuous measure of bird responses to urbanization. <i>Oikos</i> , 2019 , 128, 845-858	4	57
85	Improving big citizen science data: Moving beyond haphazard sampling. <i>PLoS Biology</i> , 2019 , 17, e3000357	7.7	55
84	Symbiont switching and alternative resource acquisition strategies drive mutualism breakdown. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 5229-5234	11.5	52
83	Trees, branches and (square) roots: why evolutionary relatedness is not linearly related to functional distance. <i>Methods in Ecology and Evolution</i> , 2015 , 6, 439-444	7.7	45
82	Climate and soils together regulate photosynthetic carbon isotope discrimination within C3 plants worldwide. <i>Global Ecology and Biogeography</i> , 2018 , 27, 1056-1067	6.1	45
81	Phylogenetic comparative methods. <i>Current Biology</i> , 2017 , 27, R333-R336	6.3	42
80	Flammability across the gymnosperm phylogeny: the importance of litter particle size. <i>New Phytologist</i> , 2015 , 206, 672-81	9.8	42
79	What we (don't) know about global plant diversity. <i>Ecography</i> , 2019 , 42, 1819-1831	6.5	41
78	Plants show more flesh in the tropics: variation in fruit type along latitudinal and climatic gradients. <i>Ecography</i> , 2017 , 40, 531-538	6.5	38
77	Decomposition trajectories of diverse litter types: a model selection analysis. <i>Methods in Ecology and Evolution</i> , 2014 , 5, 173-182	7.7	37
76	Evolutionary signals of symbiotic persistence in the legume-rhizobia mutualism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 10262-9	11.5	36
75	Functional biogeography of angiosperms: life at the extremes. <i>New Phytologist</i> , 2018 , 218, 1697-1709	9.8	34

74	Abundance, rarity and invasion debt among exotic species in a patchy ecosystem. <i>Biological Invasions</i> , 2013 , 15, 707-716	2.7	34
73	Plant functional traits in Australian subtropical rain forest: partitioning within-community from cross-landscape variation. <i>Journal of Ecology</i> , 2010 , 98, 517-525	6	34
72	A Geographic Mosaic of Climate Change Impacts on Terrestrial Vegetation: Which Areas Are Most at Risk?. <i>PLoS ONE</i> , 2015 , 10, e0130629	3.7	31
71	Winners always win: growth of a wide range of plant species from low to future high CO ₂ . <i>Ecology and Evolution</i> , 2015 , 5, 4949-61	2.8	31
70	Species composition and fire: non-additive mixture effects on ground fuel flammability. <i>Frontiers in Plant Science</i> , 2012 , 3, 63	6.2	29
69	A simple approach for maximizing the overlap of phylogenetic and comparative data. <i>Methods in Ecology and Evolution</i> , 2016 , 7, 751-758	7.7	28
68	Termites amplify the effects of wood traits on decomposition rates among multiple bamboo and dicot woody species. <i>Journal of Ecology</i> , 2015 , 103, 1214-1223	6	27
67	Are litter decomposition and fire linked through plant species traits?. <i>New Phytologist</i> , 2017 , 216, 653-668	6.8	25
66	Topographic, latitudinal and climatic distribution of <i>Pinus coulteri</i> : geographic range limits are not at the edge of the climate envelope. <i>Ecography</i> , 2015 , 38, 590-601	6.5	24
65	Traditional plant functional groups explain variation in economic but not size-related traits across the tundra biome. <i>Global Ecology and Biogeography</i> , 2019 , 28, 78-95	6.1	24
64	Contest competition and men's facial hair: beards may not provide advantages in combat. <i>Evolution and Human Behavior</i> , 2018 , 39, 147-153	4	24
63	Australian Tropical and Subtropical Rain Forest Community Assembly: Phylogeny, Functional Biogeography, and Environmental Gradients. <i>Biotropica</i> , 2012 , 44, 668-679	2.3	23
62	Optimizing future biodiversity sampling by citizen scientists. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2019 , 286, 20191487	4.4	22
61	Meta-analysis reveals profound responses of plant traits to glacial CO ₂ levels. <i>Ecology and Evolution</i> , 2013 , 3, 4525-35	2.8	22
60	Bridging reproductive and microbial ecology: a case study in arbuscular mycorrhizal fungi. <i>ISME Journal</i> , 2019 , 13, 873-884	11.9	21
59	The Tree of Life in ecosystems: evolution of plant effects on carbon and nutrient cycling. <i>Journal of Ecology</i> , 2014 , 102, 269-274	6	20
58	Sexual dimorphism in trait variability and its eco-evolutionary and statistical implications. <i>ELife</i> , 2020 , 9,	8.9	20
57	Modelling the distribution of fish around an artificial reef. <i>Marine and Freshwater Research</i> , 2017 , 68, 1955	2.2	18

56	Decomposition of 51 semidesert species from wide-ranging phylogeny is faster in standing and sand-buried than in surface leaf litters: implications for carbon and nutrient dynamics. <i>Plant and Soil</i> , 2015 , 396, 175-187	4.2	18
55	Functional traits drive the contribution of solar radiation to leaf litter decomposition among multiple arid-zone species. <i>Scientific Reports</i> , 2015 , 5, 13217	4.9	18
54	Intraspecific leaf trait variability along a boreal-to-tropical community diversity gradient. <i>PLoS ONE</i> , 2017 , 12, e0172495	3.7	17
53	Using citizen science data to define and track restoration targets in urban areas. <i>Journal of Applied Ecology</i> , 2019 , 56, 1998	5.8	15
52	Global abundance estimates for 9,700 bird species. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	15
51	Species mixture effects on flammability across plant phylogeny: the importance of litter particle size and the special role for non- Pinaceae. <i>Ecology and Evolution</i> , 2016 , 6, 8223-8234	2.8	15
50	Rapidly mapping fire effects on biodiversity at a large-scale using citizen science. <i>Science of the Total Environment</i> , 2021 , 755, 142348	10.2	15
49	Interactions between Fine Wood Decomposition and Flammability. <i>Forests</i> , 2014 , 5, 827-846	2.8	13
48	Experimental evidence that the Ornstein-Uhlenbeck model best describes the evolution of leaf litter decomposability. <i>Ecology and Evolution</i> , 2014 , 4, 3339-49	2.8	13
47	A unique web resource for physiology, ecology and the environmental sciences: PrometheusWiki. <i>Functional Plant Biology</i> , 2010 , 37, 687	2.7	13
46	Weak phylogenetic signal in physiological traits of methane-oxidizing bacteria. <i>Journal of Evolutionary Biology</i> , 2014 , 27, 1240-7	2.3	12
45	Understanding the ecosystem implications of the angiosperm rise to dominance: leaf litter decomposability among magnoliids and other basal angiosperms. <i>Journal of Ecology</i> , 2014 , 102, 337-344 ⁶		12
44	Good neighbors aplenty: fungal endophytes rarely exhibit competitive exclusion patterns across a span of woody habitats. <i>Ecology</i> , 2019 , 100, e02790	4.6	11
43	Hungry and thirsty: Effects of CO ₂ and limited water availability on plant performance. <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , 2019 , 254, 188-193	1.9	11
42	A broader perspective on plant domestication and nutrient and carbon cycling. <i>New Phytologist</i> , 2013 , 198, 331-333	9.8	10
41	A global database for metacommunity ecology, integrating species, traits, environment and space. <i>Scientific Data</i> , 2020 , 7, 6	8.2	10
40	Natural and Regenerated Saltmarshes Exhibit Similar Soil and Belowground Organic Carbon Stocks, Root Production and Soil Respiration. <i>Ecosystems</i> , 2019 , 22, 1803-1822	3.9	9
39	Effects of growth form and functional traits on response of woody plants to clearing and fragmentation of subtropical rainforest. <i>Conservation Biology</i> , 2013 , 27, 1468-77	6	9

38	Increases in CO ₂ from past low to future high levels result in slower strategies on the leaf economic spectrum. <i>Perspectives in Plant Ecology, Evolution and Systematics</i> , 2017 , 29, 41-50	3	9
37	A global growth-form database for 143,616 vascular plant species. <i>Ecology</i> , 2019 , 100, e02614	4.6	9
36	Pelagic citizen science data reveal declines of seabirds off south-eastern Australia. <i>Biological Conservation</i> , 2019 , 235, 226-235	6.2	8
35	A continental measure of urbanness predicts avian response to local urbanization. <i>Ecography</i> , 2020 , 43, 528-538	6.5	8
34	Does plant size affect growth responses to water availability at glacial, modern and future CO ₂ concentrations?. <i>Ecological Research</i> , 2016 , 31, 213-227	1.9	7
33	An evolutionary attractor model for sapwood cross section in relation to leaf area. <i>Journal of Theoretical Biology</i> , 2012 , 303, 98-109	2.3	7
32	Relationships between mycorrhizal type and leaf flammability in the Australian flora. <i>Pedobiologia</i> , 2017 , 65, 43-49	1.7	7
31	Divergence of above- and belowground C and N pool within predominant plant species along two precipitation gradients in North China. <i>Biogeosciences</i> , 2015 , 12, 457-465	4.6	7
30	Conservation birding: A quantitative conceptual framework for prioritizing citizen science observations. <i>Biological Conservation</i> , 2021 , 253, 108912	6.2	7
29	When and where soil is important to modify the carbon and water economy of leaves. <i>New Phytologist</i> , 2020 , 228, 121-135	9.8	6
28	Impact of land-use on carbon storage as dependent on soil texture: evidence from a desertified dryland using repeated paired sampling design. <i>Journal of Environmental Management</i> , 2015 , 150, 489-498	7.9	6
27	Widespread short-term persistence of frog species after the 2019-2020 bushfires in eastern Australia revealed by citizen science. <i>Conservation Science and Practice</i> , 2020 , 2, e287	2.2	6
26	AusTraits, a curated plant trait database for the Australian flora. <i>Scientific Data</i> , 2021 , 8, 254	8.2	6
25	Finding fungal ecological strategies: Is recycling an option?. <i>Fungal Ecology</i> , 2020 , 46, 100902	4.1	5
24	Three Frontiers for the Future of Biodiversity Research Using Citizen Science Data. <i>BioScience</i> , 2020 , ,	5.7	5
23	Dam Effect on Soil Nutrients and Potentially Toxic Metals in a Reservoir Riparian Zone. <i>Clean - Soil, Air, Water</i> , 2019 , 47, 1700497	1.6	5
22	Lichens buffer tundra microclimate more than the expanding shrub <i>Betula nana</i> . <i>Annals of Botany</i> , 2021 , 128, 407-418	4.1	5
21	Strong restrictions on the trait range of co-occurring species in the newly created riparian zone of the Three Gorges Reservoir Area, China. <i>Journal of Plant Ecology</i> , 2019 , 12, 825-833	1.7	4

20	Strong but diverging clonality - climate relationships of different plant clades explain weak overall pattern across China. <i>Scientific Reports</i> , 2016 , 6, 26850	4.9	4
19	How to build a biodiverse city: environmental determinants of bird diversity within and among 1581 cities. <i>Biodiversity and Conservation</i> , 2021 , 30, 217-234	3.4	4
18	Is color data from citizen science photographs reliable for biodiversity research?. <i>Ecology and Evolution</i> , 2021 , 11, 4071-4083	2.8	4
17	When to cut your losses: Dispersal allocation in an asexual filamentous fungus in response to competition. <i>Ecology and Evolution</i> , 2019 , 9, 4129-4137	2.8	3
16	Datatorr: a workflow and package for delivering successive versions of 'evolving data' directly into R. <i>GigaScience</i> , 2019 , 8,	7.6	3
15	The Role of Climate Niche, Geofloristic History, Habitat Preference, and Allometry on Wood Density within a California Plant Community. <i>Forests</i> , 2020 , 11, 105	2.8	3
14	Zanne et al. reply. <i>Nature</i> , 2015 , 521, E6-7	50.4	3
13	What we (don't) know about global plant diversity		3
12	From dangerous branches to urban banyan: Facilitating aerial root growth of <i>Ficus rubiginosa</i> . <i>PLoS ONE</i> , 2019 , 14, e0226845	3.7	3
11	Urban tolerance of birds changes throughout the full annual cycle. <i>Journal of Biogeography</i> , 2021 , 48, 1503-1517	4.1	2
10	Shifts in fine root traits within and among species along a fine-scale hydrological gradient. <i>Annals of Botany</i> , 2021 , 127, 473-481	4.1	2
9	Using citizen science to measure recolonisation of birds after the Australian 2019-2020 mega-fires. <i>Austral Ecology</i> ,	1.5	2
8	A new metric to assess the predictive accuracy of multinomial land cover models. <i>Journal of Biogeography</i> , 2017 , 44, 1212-1224	4.1	1
7	AusTraits - a curated plant trait database for the Australian flora		1
6	Environmental cues for dispersal in a filamentous fungus in simulated islands. <i>Oikos</i> , 2020 , 129, 1084-1092		0
5	Tissue chemistry of biocrust species along an aridity gradient and comparison to vascular plant leaves. <i>Functional Ecology</i> , 2021 , 35, 2604	5.6	0
4	Reply to Robinson et al.: Data integration will form the basis of future abundance estimates.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119, e2117920119 ^{11.5}		0
3	Toward a better understanding of variation in the amount of leaf area in vegetation. <i>Journal of Vegetation Science</i> , 2015 , 26, 1028-1029	3.1	

2 Rainforest bird communities threatened by extreme fire. *Global Ecology and Conservation*, **2022**, 33, e01985

1 Frequent consumption of sap suggests that omnivory is widespread among Australian geckos. *Die Naturwissenschaften*, **2021**, 108, 14

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