

Nathan J B Kraft

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.

96
papers

12,860
citations

48
h-index

104
g-index

104
ext. papers

16,198
ext. citations

8.1
avg, IF

6.3
L-index

#	Paper	IF	Citations
96	Navigating the multiple meanings of βdiversity: a roadmap for the practicing ecologist. <i>Ecology Letters</i> , 2011 , 14, 19-28	10	1495
95	Functional traits and niche-based tree community assembly in an Amazonian forest. <i>Science</i> , 2008 , 322, 580-2	33.3	769
94	Community assembly, coexistence and the environmental filtering metaphor. <i>Functional Ecology</i> , 2015 , 29, 592-599	5.6	747
93	Warming experiments underpredict plant phenological responses to climate change. <i>Nature</i> , 2012 , 485, 494-7	50.4	606
92	Functional traits and the growth-mortality trade-off in tropical trees. <i>Ecology</i> , 2010 , 91, 3664-74	4.6	604
91	Using null models to disentangle variation in community dissimilarity from variation in βdiversity. <i>Ecosphere</i> , 2011 , 2, art24	3.1	517
90	Trait evolution, community assembly, and the phylogenetic structure of ecological communities. <i>American Naturalist</i> , 2007 , 170, 271-83	3.7	512
89	A global meta-analysis of the relative extent of intraspecific trait variation in plant communities. <i>Ecology Letters</i> , 2015 , 18, 1406-19	10	485
88	Disentangling the drivers of βdiversity along latitudinal and elevational gradients. <i>Science</i> , 2011 , 333, 1755-8	33.3	482
87	Plant functional traits and the multidimensional nature of species coexistence. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 797-802	11.5	463
86	Functional trait and phylogenetic tests of community assembly across spatial scales in an Amazonian forest. <i>Ecological Monographs</i> , 2010 , 80, 401-422	9	416
85	TRY plant trait database - enhanced coverage and open access. <i>Global Change Biology</i> , 2020 , 26, 119-188	11.4	399
84	The geography of climate change: implications for conservation biogeography. <i>Diversity and Distributions</i> , 2010 , 16, 476-487	5	383
83	Sensitivity of leaf size and shape to climate: global patterns and paleoclimatic applications. <i>New Phytologist</i> , 2011 , 190, 724-39	9.8	334
82	Trait-based tests of coexistence mechanisms. <i>Ecology Letters</i> , 2013 , 16, 1294-306	10	320
81	Predicting phenology by integrating ecology, evolution and climate science. <i>Global Change Biology</i> , 2011 , 17, 3633-3643	11.4	254
80	Functional trait space and the latitudinal diversity gradient. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 13745-50	11.5	220

79	Assessing the relative importance of neutral stochasticity in ecological communities. <i>Oikos</i> , 2014 , 123, 1420-1430	4	203
78	Phylogenetic relatedness and the determinants of competitive outcomes. <i>Ecology Letters</i> , 2014 , 17, 836-844	4.4	201
77	Tree mortality across biomes is promoted by drought intensity, lower wood density and higher specific leaf area. <i>Ecology Letters</i> , 2017 , 20, 539-553	10	199
76	Phylogeny, niche conservatism and the latitudinal diversity gradient in mammals. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2010 , 277, 2131-8	4.4	188
75	The biogeography and filtering of woody plant functional diversity in North and South America. <i>Global Ecology and Biogeography</i> , 2012 , 21, 798-808	6.1	179
74	Functional Rarity: The Ecology of Outliers. <i>Trends in Ecology and Evolution</i> , 2017 , 32, 356-367	10.9	145
73	The bien r package: A tool to access the Botanical Information and Ecology Network (BIEN) database. <i>Methods in Ecology and Evolution</i> , 2018 , 9, 373-379	7.7	131
72	The relationship between wood density and mortality in a global tropical forest data set. <i>New Phytologist</i> , 2010 , 188, 1124-36	9.8	130
71	Phylogenetic conservatism in plant phenology. <i>Journal of Ecology</i> , 2013 , 101, 1520-1530	6	125
70	Mapping local and global variability in plant trait distributions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E10937-E10946	11.5	103
69	A structural approach for understanding multispecies coexistence. <i>Ecological Monographs</i> , 2017 , 87, 470-486	9	100
68	Environmental factors predict community functional composition in Amazonian forests. <i>Journal of Ecology</i> , 2014 , 102, 145-155	6	100
67	Contrasting trait responses in plant communities to experimental and geographic variation in precipitation. <i>New Phytologist</i> , 2010 , 188, 565-75	9.8	96
66	The commonness of rarity: Global and future distribution of rarity across land plants. <i>Science Advances</i> , 2019 , 5, eaaz0414	14.3	94
65	Habitat area and climate stability determine geographical variation in plant species range sizes. <i>Ecology Letters</i> , 2013 , 16, 1446-54	10	93
64	Stochastic and deterministic drivers of spatial and temporal turnover in breeding bird communities. <i>Global Ecology and Biogeography</i> , 2013 , 22, 202-212	6.1	91
63	Functional trait differences and the outcome of community assembly: an experimental test with vernal pool annual plants. <i>Oikos</i> , 2014 , 123, 1391-1399	4	77
62	Shifts in trait means and variances in North American tree assemblages: species richness patterns are loosely related to the functional space. <i>Ecography</i> , 2015 , 38, 649-658	6.5	75

61	Range size, taxon age and hotspots of neoendemism in the California flora. <i>Diversity and Distributions</i> , 2010 , 16, 403-413	5	71
60	Different evolutionary histories underlie congruent species richness gradients of birds and mammals. <i>Journal of Biogeography</i> , 2012 , 39, 825-841	4.1	69
59	Incompletely resolved phylogenetic trees inflate estimates of phylogenetic conservatism. <i>Ecology</i> , 2012 , 93, 242-7	4.6	64
58	Megafauna extinction, tree species range reduction, and carbon storage in Amazonian forests. <i>Ecography</i> , 2016 , 39, 194-203	6.5	64
57	Sensitivity of Spring Phenology to Warming Across Temporal and Spatial Climate Gradients in Two Independent Databases. <i>Ecosystems</i> , 2012 , 15, 1283-1294	3.9	60
56	Divergent drivers of leaf trait variation within species, among species, and among functional groups. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 5480-5485	11.5	59
55	Intraguild predation drives evolutionary niche shift in threespine stickleback. <i>Evolution; International Journal of Organic Evolution</i> , 2012 , 66, 1819-32	3.8	59
54	Spatial patterns and climate relationships of major plant traits in the New World differ between woody and herbaceous species. <i>Journal of Biogeography</i> , 2018 , 45, 895-916	4.1	57
53	ranacapa: An R package and Shiny web app to explore environmental DNA data with exploratory statistics and interactive visualizations. <i>F1000Research</i> , 2018 , 7, 1734	3.6	55
52	Intransitivity is infrequent and fails to promote annual plant coexistence without pairwise niche differences. <i>Ecology</i> , 2017 , 98, 1193-1200	4.6	53
51	Linking environmental filtering and disequilibrium to biogeography with a community climate framework. <i>Ecology</i> , 2015 , 96, 972-85	4.6	50
50	Characterizing scale-dependent community assembly using the functional-diversity--area relationship. <i>Ecology</i> , 2013 , 94, 2392-402	4.6	50
49	Patterns and drivers of plant functional group dominance across the Western Hemisphere: a macroecological re-assessment based on a massive botanical dataset. <i>Botanical Journal of the Linnean Society</i> , 2016 , 180, 141-160	2.2	50
48	Plant traits predict inter- and intraspecific variation in susceptibility to herbivory in a hyperdiverse Neotropical rain forest tree community. <i>Journal of Ecology</i> , 2014 , 102, 939-952	6	46
47	Flowering date of taxonomic families predicts phenological sensitivity to temperature: Implications for forecasting the effects of climate change on unstudied taxa. <i>American Journal of Botany</i> , 2013 , 100, 1381-97	2.7	43
46	Integrating the underlying structure of stochasticity into community ecology. <i>Ecology</i> , 2020 , 101, e02922	4.6	42
45	Topography and neighborhood crowding can interact to shape species growth and distribution in a diverse Amazonian forest. <i>Ecology</i> , 2018 , 99, 2272-2283	4.6	40
44	Anacapa Toolkit: An environmental DNA toolkit for processing multilocus metabarcode datasets. <i>Methods in Ecology and Evolution</i> , 2019 , 10, 1469-1475	7.7	39

43	Drier tropical forests are susceptible to functional changes in response to a long-term drought. <i>Ecology Letters</i> , 2019 , 22, 855-865	10	39
42	Functional trait differences influence neighbourhood interactions in a hyperdiverse Amazonian forest. <i>Ecology Letters</i> , 2016 , 19, 1062-70	10	38
41	Individual cell based traits obtained by scanning flow-cytometry show selection by biotic and abiotic environmental factors during a phytoplankton spring bloom. <i>PLoS ONE</i> , 2013 , 8, e71677	3.7	37
40	Stochastic dilution effects weaken deterministic effects of niche-based processes in species rich forests. <i>Ecology</i> , 2016 , 97, 347-60	4.6	36
39	FORUM: Sustaining ecosystem functions in a changing world: a call for an integrated approach. <i>Journal of Applied Ecology</i> , 2013 , 50, 1124-1130	5.8	34
38	Spatially Explicit Metrics of Species Diversity, Functional Diversity, and Phylogenetic Diversity: Insights into Plant Community Assembly Processes. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2017 , 48, 329-351	13.5	32
37	A phylogenetically informed delineation of floristic regions within a biodiversity hotspot in Yunnan, China. <i>Scientific Reports</i> , 2015 , 5, 9396	4.9	32
36	Temperature shapes opposing latitudinal gradients of plant taxonomic and phylogenetic diversity. <i>Ecology Letters</i> , 2019 , 22, 1126-1135	10	26
35	Winning and losing with microbes: how microbially mediated fitness differences influence plant diversity. <i>Ecology Letters</i> , 2019 , 22, 1178-1191	10	22
34	Seed plant phylogenetic diversity and species richness in conservation planning within a global biodiversity hotspot in eastern Asia. <i>Conservation Biology</i> , 2015 , 29, 1552-62	6	22
33	Plant Functional Diversity and the Biogeography of Biomes in North and South America. <i>Frontiers in Ecology and Evolution</i> , 2018 , 6,	3.7	22
32	A competition-defence trade-off both promotes and weakens coexistence in an annual plant community. <i>Journal of Ecology</i> , 2018 , 106, 1806-1818	6	20
31	Robustness of trait connections across environmental gradients and growth forms. <i>Global Ecology and Biogeography</i> , 2019 , 28, 1806-1826	6.1	19
30	Assembly of Plant Communities 2014 , 67-88		18
29	Intraspecific leaf trait variability along a boreal-to-tropical community diversity gradient. <i>PLoS ONE</i> , 2017 , 12, e0172495	3.7	17
28	Plant-O-Matic: a dynamic and mobile guide to all plants of the Americas. <i>Methods in Ecology and Evolution</i> , 2016 , 7, 960-965	7.7	17
27	Global gradients in intraspecific variation in vegetative and floral traits are partially associated with climate and species richness. <i>Global Ecology and Biogeography</i> , 2020 , 29, 992-1007	6.1	13
26	Disentangling the functional trait correlates of spatial aggregation in tropical forest trees. <i>Ecology</i> , 2019 , 100, e02591	4.6	13

25	The relationship of woody plant size and leaf nutrient content to large-scale productivity for forests across the Americas. <i>Journal of Ecology</i> , 2019 , 107, 2278-2290	6	11
24	Response to Comment on "Functional Traits and Niche-Based Tree Community Assembly in an Amazonian Forest". <i>Science</i> , 2009 , 324, 1015-1015	33.3	10
23	Response to Comments on "Disentangling the Drivers of α Diversity Along Latitudinal and Elevational Gradients". <i>Science</i> , 2012 , 335, 1573-1573	33.3	7
22	Climatic and soil factors explain the two-dimensional spectrum of global plant trait variation.. <i>Nature Ecology and Evolution</i> , 2021 ,	12.3	6
21	Trait Evolution, Community Assembly, and the Phylogenetic Structure of Ecological Communities. <i>American Naturalist</i> , 2007 , 170, 271	3.7	6
20	Neighborhood effects explain increasing asynchronous seedling survival in a subtropical forest. <i>Ecology</i> , 2019 , 100, e02821	4.6	5
19	Commercial Plant Production and Consumption Still Follow the Latitudinal Gradient in Species Diversity despite Economic Globalization. <i>PLoS ONE</i> , 2016 , 11, e0163002	3.7	5
18	Does deterministic coexistence theory matter in a finite world?		5
17	A Common Toolbox to Understand, Monitor or Manage Rarity? A Response to Carmona et al. <i>Trends in Ecology and Evolution</i> , 2017 , 32, 891-893	10.9	4
16	The CALeDNA program: Citizen scientists and researchers inventory California's biodiversity. <i>California Agriculture</i> , 2021 , 75, 20-32	1.1	4
15	Predicting intraspecific trait variation among California's grasses. <i>Journal of Ecology</i> , 2021 , 109, 2662-2667		4
14	Neither species geographic range size, climatic envelope, nor intraspecific leaf trait variability capture habitat specialization in a hyperdiverse Amazonian forest. <i>Biotropica</i> , 2019 , 51, 304-310	2.3	3
13	Contrasting patterns of taxonomic, phylogenetic and functional variation along a Costa Rican altitudinal gradient in the plant family Melastomataceae. <i>Journal of Tropical Ecology</i> , 2018 , 34, 204-208	1.3	3
12	Half of the world's tree biodiversity is unprotected and is increasingly threatened by human activities		3
11	The Assembly of Plant Communities 2013 , 1-19		3
10	Functional trait and phylogenetic tests of community assembly across spatial scales in an Amazonian forest 2010 , 80, 401		2
9	Quantifying microbially mediated fitness differences reveals the tendency for plant-soil feedbacks to drive species exclusion among California annual plants		2
8	Mechanisms underlying higher order interactions: from quantitative definitions to ecological processes		2

7	Functional biogeography of Neotropical moist forests: Trait-climate relationships and assembly patterns of tree communities. <i>Global Ecology and Biogeography</i> , 2021 , 30, 1430-1446	6.1	2
6	Soil Microbes Generate Stronger Fitness Differences than Stabilization among California Annual Plants. <i>American Naturalist</i> , 2021 , 197, E30-E39	3.7	2
5	Regularized Regression: A New Tool for Investigating and Predicting Tree Growth. <i>Forests</i> , 2021 , 12, 1283	2.8	0
4	The hidden value of trees: Quantifying the ecosystem services of tree lineages and their major threats across the contiguous US 2022 , 1, e0000010		0
3	A review of the heterogeneous landscape of biodiversity databases: Opportunities and challenges for a synthesized biodiversity knowledge base. <i>Global Ecology and Biogeography</i> ,	6.1	0
2	From Ecological Strategies to Trait Ecology: The Arising Researcher. <i>Bulletin of the Ecological Society of America</i> , 2017 , 98, 32-33	0.7	
1	Assembly of Plant Communities 2015 , 1-18		