Nathan J B Kraft

List of Publications by Year
in descending order

95 papers	18,705 citations	30070 54 h-index	45317 90 g-index
104 all docs	104 docs citations	104 times ranked	20130 citing authors

#	Article	IF	Citations
1	Navigating the multiple meanings of Î² diversity: a roadmap for the practicing ecologist. Ecology Letters, 2011, 14, 19-28.	6.4	1,899
2	Community assembly, coexistence and the environmental filtering metaphor. Functional Ecology, 2015, 29, 592-599.	3.6	1,126
3	TRY plant trait database â€" enhanced coverage and open access. Global Change Biology, 2020, 26, 119-188.	9.5	1,038
4	Functional Traits and Niche-Based Tree Community Assembly in an Amazonian Forest. Science, 2008, 322, 580-582.	12.6	949
5	Functional traits and the growthâ€"mortality tradeâ€off in tropical trees. Ecology, 2010, 91, 3664-3674.	3.2	788
6	Warming experiments underpredict plant phenological responses to climate change. Nature, 2012, 485, 494-497.	27.8	772
7	A global metaâ€analysis of the relative extent of intraspecific trait variation in plant communities. Ecology Letters, 2015, 18, 1406-1419.	6.4	768
8	Plant functional traits and the multidimensional nature of species coexistence. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 797-802.	7.1	701
9	Using null models to disentangle variation in community dissimilarity from variation in Î±-diversity. Ecosphere, 2011, 2, art24.	2.2	698
10	Trait Evolution, Community Assembly, and the Phylogenetic Structure of Ecological Communities. American Naturalist, 2007, 170, 271-283.	2.1	625
11	Disentangling the Drivers of Î² Diversity Along Latitudinal and Elevational Gradients. Science, 2011, 333, 1755-1758.	12.6	617
12	Functional trait and phylogenetic tests of community assembly across spatial scales in an Amazonian forest. Ecological Monographs, 2010, 80, 401-422.	5.4	501
13	The geography of climate change: implications for conservation biogeography. Diversity and Distributions, 2010, 16, 476-487.	4.1	490
14	Sensitivity of leaf size and shape to climate: global patterns and paleoclimatic applications. New Phytologist, 2011, 190, 724-739.	7.3	445
15	Traitâ€based tests of coexistence mechanisms. Ecology Letters, 2013, 16, 1294-1306.	6.4	422
16	Tree mortality across biomes is promoted by drought intensity, lower wood density and higher specific leaf area. Ecology Letters, 2017, 20, 539-553.	6.4	348
17	Functional trait space and the latitudinal diversity gradient. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 13745-13750.	7.1	319
18	Predicting phenology by integrating ecology, evolution and climate science. Global Change Biology, 2011, 17, 3633-3643.	9.5	314

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19	Assessing the relative importance of neutral stochasticity in ecological communities. Oikos, 2014, 123, 1420-1430.	2.7	310
20	Phylogenetic relatedness and the determinants of competitive outcomes. Ecology Letters, 2014, 17, 836-844.	6.4	288
21	Functional Rarity: The Ecology of Outliers. Trends in Ecology and Evolution, 2017, 32, 356-367.	8.7	258
22	The <scp>bien r</scp> package: A tool to access the Botanical Information and Ecology Network (BIEN) database. Methods in Ecology and Evolution, 2018, 9, 373-379.	5.2	241
23	The biogeography and filtering of woody plant functional diversity in North and South America. Global Ecology and Biogeography, 2012, 21, 798-808.	5.8	235
24	Phylogeny, niche conservatism and the latitudinal diversity gradient in mammals. Proceedings of the Royal Society B: Biological Sciences, 2010, 277, 2131-2138.	2.6	219
25	A structural approach for understanding multispecies coexistence. Ecological Monographs, 2017, 87, 470-486.	5.4	208
26	The commonness of rarity: Global and future distribution of rarity across land plants. Science Advances, 2019, 5, eaaz0414.	10.3	194
27	Phylogenetic conservatism in plant phenology. Journal of Ecology, 2013, 101, 1520-1530.	4.0	182
28	The relationship between wood density and mortality in a global tropical forest data set. New Phytologist, 2010, 188, 1124-1136.	7.3	164
29	Mapping local and global variability in plant trait distributions. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E10937-E10946.	7.1	159
30	Environmental factors predict community functional composition in <scp>A</scp>mazonian forests. Journal of Ecology, 2014, 102, 145-155.	4.0	132
31	ranacapa: An R package and Shiny web app to explore environmental DNA data with exploratory statistics and interactive visualizations. F1000Research, 2018, 7, 1734.	1.6	132
32	Habitat area and climate stability determine geographical variation in plant species range sizes. Ecology Letters, 2013, 16, 1446-1454.	6.4	130
33	Contrasting trait responses in plant communities to experimental and geographic variation in precipitation. New Phytologist, 2010, 188, 565-575.	7.3	127
34	Stochastic and deterministic drivers of spatial and temporal turnover in breeding bird communities. Global Ecology and Biogeography, 2013, 22, 202-212.	5.8	121
35	Integrating the underlying structure of stochasticity into community ecology. Ecology, 2020, 101, e02922.	3.2	113
36	Sensitivity of Spring Phenology to Warming Across Temporal and Spatial Climate Gradients in Two Independent Databases. Ecosystems, 2012, 15, 1283-1294.	3.4	107

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37	Functional trait differences and the outcome of community assembly: an experimental test with vernal pool annual plants. Oikos, 2014, 123, 1391-1399.	2.7	105
38	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.	7.1	94
39	Intransitivity is infrequent and fails to promote annual plant coexistence without pairwise niche differences. Ecology, 2017, 98, 1193-1200.	3.2	93
40	Spatial patterns and climate relationships of major plant traits in the New World differ between woody and herbaceous species. Journal of Biogeography, 2018, 45, 895-916.	3.0	92
41	Range size, taxon age and hotspots of neoendemism in the California flora. Diversity and Distributions, 2010, 16, 403-413.	4.1	91
42	Shifts in trait means and variances in North American tree assemblages: species richness patterns are loosely related to the functional space. Ecography, 2015, 38, 649-658.	4.5	89
43	Climatic and soil factors explain the two-dimensional spectrum of global plant trait variation. Nature Ecology and Evolution, 2022, 6, 36-50.	7.8	89
44	<i>Anacapa Toolkit</i>: An environmental DNA toolkit for processing multilocus metabarcode datasets. Methods in Ecology and Evolution, 2019, 10, 1469-1475.	5.2	88
45	Megafauna extinction, tree species range reduction, and carbon storage in Amazonian forests. Ecography, 2016, 39, 194-203.	4.5	86
46	Different evolutionary histories underlie congruent species richness gradients of birds and mammals. Journal of Biogeography, 2012, 39, 825-841.	3.0	84
47	Incompletely resolved phylogenetic trees inflate estimates of phylogenetic conservatism. Ecology, 2012, 93, 242-247.	3.2	75
48	Drier tropical forests are susceptible to functional changes in response to a longâ€term drought. Ecology Letters, 2019, 22, 855-865.	6.4	75
49	Topography and neighborhood crowding can interact to shape species growth and distribution in a diverse Amazonian forest. Ecology, 2018, 99, 2272-2283.	3.2	72
50	Linking environmental filtering and disequilibrium to biogeography with a community climate framework. Ecology, 2015, 96, 972-985.	3.2	70
51	INTRAGUILD PREDATION DRIVES EVOLUTIONARY NICHE SHIFT IN THREESPINE STICKLEBACK. Evolution; International Journal of Organic Evolution, 2012, 66, 1819-1832.	2.3	68
52	Assembly of Plant Communities. , 2014, , 67-88.		67
53	Winning and losing with microbes: how microbially mediated fitness differences influence plant diversity. Ecology Letters, 2019, 22, 1178-1191.	6.4	67
54	Characterizing scaleâ€dependent community assembly using the functionalâ€diversityâ€“area relationship. Ecology, 2013, 94, 2392-2402.	3.2	63

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55	Plant traits predict interâ€•and intraspecific variation in susceptibility to herbivory in a hyperdiverse Neotropical rain forest tree community. Journal of Ecology, 2014, 102, 939-952.	4.0	63
56	Patterns and drivers of plant functional group dominance across the Western Hemisphere: a macroecological re-assessment based on a massive botanical dataset. Botanical Journal of the Linnean Society, 2016, 180, 141-160.	1.6	59
57	Functional trait differences influence neighbourhood interactions in a hyperdiverse Amazonian forest. Ecology Letters, 2016, 19, 1062-1070.	6.4	58
58	Robustness of trait connections across environmental gradients and growth forms. Global Ecology and Biogeography, 2019, 28, 1806-1826.	5.8	56
59	Flowering date of taxonomic families predicts phenological sensitivity to temperature: Implications for forecasting the effects of climate change on unstudied taxa. American Journal of Botany, 2013, 100, 1381-1397.	1.7	54
60	Temperature shapes opposing latitudinal gradients of plant taxonomic and phylogenetic Î² diversity. Ecology Letters, 2019, 22, 1126-1135.	6.4	54
61	Spatially Explicit Metrics of Species Diversity, Functional Diversity, and Phylogenetic Diversity: Insights into Plant Community Assembly Processes. Annual Review of Ecology, Evolution, and Systematics, 2017, 48, 329-351.	8.3	51
62	Global gradients in intraspecific variation in vegetative and floral traits are partially associated with climate and species richness. Global Ecology and Biogeography, 2020, 29, 992-1007.	5.8	51
63	Individual Cell Based Traits Obtained by Scanning Flow-Cytometry Show Selection by Biotic and Abiotic Environmental Factors during a Phytoplankton Spring Bloom. PLoS ONE, 2013, 8, e71677.	2.5	48
64	A competitionâ€"defence tradeâ€off both promotes and weakens coexistence in an annual plant community. Journal of Ecology, 2018, 106, 1806-1818.	4.0	47
65	A phylogenetically informed delineation of floristic regions within a biodiversity hotspot in Yunnan, China. Scientific Reports, 2015, 5, 9396.	3.3	46
66	Stochastic dilution effects weaken deterministic effects of nicheâ€based processes in species rich forests. Ecology, 2016, 97, 347-360.	3.2	42
67	Trait Evolution, Community Assembly, and the Phylogenetic Structure of Ecological Communities. American Naturalist, 2007, 170, 271.	2.1	39
68	Plant Functional Diversity and the Biogeography of Biomes in North and South America. Frontiers in Ecology and Evolution, 2018, 6, .	2.2	38
69	FORUM: Sustaining ecosystem functions in a changing world: a call for an integrated approach. Journal of Applied Ecology, 2013, 50, 1124-1130.	4.0	37
70	Seed plant phylogenetic diversity and species richness in conservation planning within a global biodiversity hotspot in eastern Asia. Conservation Biology, 2015, 29, 1552-1562.	4.7	35
71	A review of the heterogeneous landscape of biodiversity databases: Opportunities and challenges for a synthesized biodiversity knowledge base. Global Ecology and Biogeography, 2022, 31, 1242-1260.	5.8	29
72	Disentangling the functional trait correlates of spatial aggregation in tropical forest trees. Ecology, 2019, 100, e02591.	3.2	22

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73	Intraspecific leaf trait variability along a boreal-to-tropical community diversity gradient. PLoS ONE, 2017, 12, e0172495.	2.5	20
74	The CALeDNA program: Citizen scientists and researchers inventory California's biodiversity. California Agriculture, 2021, 75, 20-32.	0.8	20
75	Detecting and interpreting higherâ€order interactions in ecological communities. Ecology Letters, 2022, 25, 1604-1617.	6.4	20
76	<i>Plantâ€Oâ€Matic</i>: a dynamic and mobile guide to all plants of the Americas. Methods in Ecology and Evolution, 2016, 7, 960-965.	5.2	18
77	The relationship of woody plant size and leaf nutrient content to largeâ€scale productivity for forests across the Americas. Journal of Ecology, 2019, 107, 2278-2290.	4.0	18
78	Functional biogeography of Neotropical moist forests: Traitâ€“climate relationships and assembly patterns of tree communities. Global Ecology and Biogeography, 2021, 30, 1430-1446.	5.8	18
79	High exposure of global tree diversity to human pressure. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	18
80	Functional traits predict species responses to environmental variation in a California grassland annual plant community. Journal of Ecology, 2022, 110, 833-844.	4.0	15
81	Predicting intraspecific trait variation among California's grasses. Journal of Ecology, 2021, 109, 2662-2677.	4.0	14
82	The hidden value of trees: Quantifying the ecosystem services of tree lineages and their major threats across the contiguous US. , 2022, 1, e0000010.		14
83	Response to Comment on â€œFunctional Traits and Niche-Based Tree Community Assembly in an Amazonian Forestâ€. Science, 2009, 324, 1015-1015.	12.6	11
84	Soil Microbes Generate Stronger Fitness Differences than Stabilization among California Annual Plants. American Naturalist, 2021, 197, E30-E39.	2.1	11
85	Response to Comments on â€œDisentangling the Drivers of Î² Diversity Along Latitudinal and Elevational Gradientsâ€. Science, 2012, 335, 1573-1573.	12.6	8
86	Neighborhood effects explain increasing asynchronous seedling survival in a subtropical forest. Ecology, 2019, 100, e02821.	3.2	8
87	Commercial Plant Production and Consumption Still Follow the Latitudinal Gradient in Species Diversity despite Economic Globalization. PLoS ONE, 2016, 11, e0163002.	2.5	6
88	A Common Toolbox to Understand, Monitor or Manage Rarity? A Response to Carmona et al.. Trends in Ecology and Evolution, 2017, 32, 891-893.	8.7	4
89	Contrasting patterns of taxonomic, phylogenetic and functional variation along a Costa Rican altitudinal gradient in the plant family Melastomataceae. Journal of Tropical Ecology, 2018, 34, 204-208.	1.1	4
90	Neither species geographic range size, climatic envelope, nor intraspecific leaf trait variability capture habitat specialization in a hyperdiverse Amazonian forest. Biotropica, 2019, 51, 304-310.	1.6	3

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91	The Assembly of Plant Communities. , 2013, , 1-19.		3
92	Regularized Regression: A New Tool for Investigating and Predicting Tree Growth. Forests, 2021, 12, 1283.	2.1	2
93	Functional trait and phylogenetic tests of community assembly across spatial scales in an Amazonian forest. Ecological Monographs, 2010, 80, 100318220649095.	5.4	2
94	From Ecological Strategies to Trait Ecology: The Arising Researcher. Bulletin of the Ecological Society of America, 2017, 98, 32-33.	0.2	0
95	Assembly of Plant Communities. , 2015, , 1-18.		0