

Nathan J B Kraft

List of Publications by Year in descending order

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Version: 2024-02-01

95
papers

18,705
citations

34493

54
h-index

51423

90
g-index

104
all docs

104
docs citations

104
times ranked

22652
citing authors

#	ARTICLE	IF	CITATIONS
1	Navigating the multiple meanings of \hat{I}^2 diversity: a roadmap for the practicing ecologist. Ecology Letters, 2011, 14, 19-28.	3.0	1,899
2	Community assembly, coexistence and the environmental filtering metaphor. Functional Ecology, 2015, 29, 592-599.	1.7	1,126
3	TRY plant trait database "enhanced coverage and open access. Global Change Biology, 2020, 26, 119-188.	4.2	1,038
4	Functional Traits and Niche-Based Tree Community Assembly in an Amazonian Forest. Science, 2008, 322, 580-582.	6.0	949
5	Functional traits and the growth-mortality tradeoff in tropical trees. Ecology, 2010, 91, 3664-3674.	1.5	788
6	Warming experiments underpredict plant phenological responses to climate change. Nature, 2012, 485, 494-497.	13.7	772
7	A global meta-analysis of the relative extent of intraspecific trait variation in plant communities. Ecology Letters, 2015, 18, 1406-1419.	3.0	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.	3.3	701
9	Using null models to disentangle variation in community dissimilarity from variation in \hat{I}^2 -diversity. Ecosphere, 2011, 2, art24.	1.0	698
10	Trait Evolution, Community Assembly, and the Phylogenetic Structure of Ecological Communities. American Naturalist, 2007, 170, 271-283.	1.0	625
11	Disentangling the Drivers of \hat{I}^2 Diversity Along Latitudinal and Elevational Gradients. Science, 2011, 333, 1755-1758.	6.0	617
12	Functional trait and phylogenetic tests of community assembly across spatial scales in an Amazonian forest. Ecological Monographs, 2010, 80, 401-422.	2.4	501
13	The geography of climate change: implications for conservation biogeography. Diversity and Distributions, 2010, 16, 476-487.	1.9	490
14	Sensitivity of leaf size and shape to climate: global patterns and paleoclimatic applications. New Phytologist, 2011, 190, 724-739.	3.5	445
15	Trait-based tests of coexistence mechanisms. Ecology Letters, 2013, 16, 1294-1306.	3.0	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.	3.0	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.	3.3	319
18	Predicting phenology by integrating ecology, evolution and climate science. Global Change Biology, 2011, 17, 3633-3643.	4.2	314

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19	Assessing the relative importance of neutral stochasticity in ecological communities. <i>Oikos</i> , 2014, 123, 1420-1430.	1.2	310
20	Phylogenetic relatedness and the determinants of competitive outcomes. <i>Ecology Letters</i> , 2014, 17, 836-844.	3.0	288
21	Functional Rarity: The Ecology of Outliers. <i>Trends in Ecology and Evolution</i> , 2017, 32, 356-367.	4.2	258
22	The <code>bien</code> package: A tool to access the Botanical Information and Ecology Network (BIEN) database. <i>Methods in Ecology and Evolution</i> , 2018, 9, 373-379.	2.2	241
23	The biogeography and filtering of woody plant functional diversity in North and South America. <i>Global Ecology and Biogeography</i> , 2012, 21, 798-808.	2.7	235
24	Phylogeny, niche conservatism and the latitudinal diversity gradient in mammals. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2010, 277, 2131-2138.	1.2	219
25	A structural approach for understanding multispecies coexistence. <i>Ecological Monographs</i> , 2017, 87, 470-486.	2.4	208
26	The commonness of rarity: Global and future distribution of rarity across land plants. <i>Science Advances</i> , 2019, 5, eaaz0414.	4.7	194
27	Phylogenetic conservatism in plant phenology. <i>Journal of Ecology</i> , 2013, 101, 1520-1530.	1.9	182
28	The relationship between wood density and mortality in a global tropical forest data set. <i>New Phytologist</i> , 2010, 188, 1124-1136.	3.5	164
29	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.	3.3	159
30	Environmental factors predict community functional composition in Amazonian forests. <i>Journal of Ecology</i> , 2014, 102, 145-155.	1.9	132
31	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.	0.8	132
32	Habitat area and climate stability determine geographical variation in plant species range sizes. <i>Ecology Letters</i> , 2013, 16, 1446-1454.	3.0	130
33	Contrasting trait responses in plant communities to experimental and geographic variation in precipitation. <i>New Phytologist</i> , 2010, 188, 565-575.	3.5	127
34	Stochastic and deterministic drivers of spatial and temporal turnover in breeding bird communities. <i>Global Ecology and Biogeography</i> , 2013, 22, 202-212.	2.7	121
35	Integrating the underlying structure of stochasticity into community ecology. <i>Ecology</i> , 2020, 101, e02922.	1.5	113
36	Sensitivity of Spring Phenology to Warming Across Temporal and Spatial Climate Gradients in Two Independent Databases. <i>Ecosystems</i> , 2012, 15, 1283-1294.	1.6	107

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37	Functional trait differences and the outcome of community assembly: an experimental test with vernal pool annual plants. <i>Oikos</i> , 2014, 123, 1391-1399.	1.2	105
38	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.	3.3	94
39	Intransitivity is infrequent and fails to promote annual plant coexistence without pairwise niche differences. <i>Ecology</i> , 2017, 98, 1193-1200.	1.5	93
40	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.	1.4	92
41	Range size, taxon age and hotspots of neoendemism in the California flora. <i>Diversity and Distributions</i> , 2010, 16, 403-413.	1.9	91
42	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.	2.1	89
43	Climatic and soil factors explain the two-dimensional spectrum of global plant trait variation. <i>Nature Ecology and Evolution</i> , 2022, 6, 36-50.	3.4	89
44	<i>Anacapa Toolkit</i>: An environmental DNA toolkit for processing multilocus metabarcode datasets. <i>Methods in Ecology and Evolution</i> , 2019, 10, 1469-1475.	2.2	88
45	Megafauna extinction, tree species range reduction, and carbon storage in Amazonian forests. <i>Ecography</i> , 2016, 39, 194-203.	2.1	86
46	Different evolutionary histories underlie congruent species richness gradients of birds and mammals. <i>Journal of Biogeography</i> , 2012, 39, 825-841.	1.4	84
47	Incompletely resolved phylogenetic trees inflate estimates of phylogenetic conservatism. <i>Ecology</i> , 2012, 93, 242-247.	1.5	75
48	Drier tropical forests are susceptible to functional changes in response to a long-term drought. <i>Ecology Letters</i> , 2019, 22, 855-865.	3.0	75
49	Topography and neighborhood crowding can interact to shape species growth and distribution in a diverse Amazonian forest. <i>Ecology</i> , 2018, 99, 2272-2283.	1.5	72
50	Linking environmental filtering and disequilibrium to biogeography with a community climate framework. <i>Ecology</i> , 2015, 96, 972-985.	1.5	70
51	INTRAGUILD PREDATION DRIVES EVOLUTIONARY NICHE SHIFT IN THREESPINE STICKLEBACK. <i>Evolution; International Journal of Organic Evolution</i> , 2012, 66, 1819-1832.	1.1	68
52	Assembly of Plant Communities. , 2014, , 67-88.		67
53	Winning and losing with microbes: how microbially mediated fitness differences influence plant diversity. <i>Ecology Letters</i> , 2019, 22, 1178-1191.	3.0	67
54	Characterizing scale-dependent community assembly using the functional diversity-area relationship. <i>Ecology</i> , 2013, 94, 2392-2402.	1.5	63

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55	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.	1.9	63
56	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.	0.8	59
57	Functional trait differences influence neighbourhood interactions in a hyperdiverse Amazonian forest. <i>Ecology Letters</i> , 2016, 19, 1062-1070.	3.0	58
58	Robustness of trait connections across environmental gradients and growth forms. <i>Global Ecology and Biogeography</i> , 2019, 28, 1806-1826.	2.7	56
59	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, 1381-1397.	0.8	54
60	Temperature shapes opposing latitudinal gradients of plant taxonomic and phylogenetic β^2 diversity. <i>Ecology Letters</i> , 2019, 22, 1126-1135.	3.0	54
61	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.	3.8	51
62	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.	2.7	51
63	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.	1.1	48
64	A competition-defence trade-off both promotes and weakens coexistence in an annual plant community. <i>Journal of Ecology</i> , 2018, 106, 1806-1818.	1.9	47
65	A phylogenetically informed delineation of floristic regions within a biodiversity hotspot in Yunnan, China. <i>Scientific Reports</i> , 2015, 5, 9396.	1.6	46
66	Stochastic dilution effects weaken deterministic effects of niche-based processes in species rich forests. <i>Ecology</i> , 2016, 97, 347-360.	1.5	42
67	Trait Evolution, Community Assembly, and the Phylogenetic Structure of Ecological Communities. <i>American Naturalist</i> , 2007, 170, 271.	1.0	39
68	Plant Functional Diversity and the Biogeography of Biomes in North and South America. <i>Frontiers in Ecology and Evolution</i> , 2018, 6, .	1.1	38
69	FORUM: Sustaining ecosystem functions in a changing world: a call for an integrated approach. <i>Journal of Applied Ecology</i> , 2013, 50, 1124-1130.	1.9	37
70	Seed plant phylogenetic diversity and species richness in conservation planning within a global biodiversity hotspot in eastern Asia. <i>Conservation Biology</i> , 2015, 29, 1552-1562.	2.4	35
71	A review of the heterogeneous landscape of biodiversity databases: Opportunities and challenges for a synthesized biodiversity knowledge base. <i>Global Ecology and Biogeography</i> , 2022, 31, 1242-1260.	2.7	29
72	Disentangling the functional trait correlates of spatial aggregation in tropical forest trees. <i>Ecology</i> , 2019, 100, e02591.	1.5	22

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73	Intraspecific leaf trait variability along a boreal-to-tropical community diversity gradient. PLoS ONE, 2017, 12, e0172495.	1.1	20
74	The CALeDNA program: Citizen scientists and researchers inventory California's biodiversity. California Agriculture, 2021, 75, 20-32.	0.5	20
75	Detecting and interpreting higher-order interactions in ecological communities. Ecology Letters, 2022, 25, 1604-1617.	3.0	20
76	<i>Plantâ€œMatic</i> : a dynamic and mobile guide to all plants of the Americas. Methods in Ecology and Evolution, 2016, 7, 960-965.	2.2	18
77	The relationship of woody plant size and leaf nutrient content to large-scale productivity for forests across the Americas. Journal of Ecology, 2019, 107, 2278-2290.	1.9	18
78	Functional biogeography of Neotropical moist forests: Trait-climate relationships and assembly patterns of tree communities. Global Ecology and Biogeography, 2021, 30, 1430-1446.	2.7	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, .	3.3	18
80	Functional traits predict species responses to environmental variation in a California grassland annual plant community. Journal of Ecology, 2022, 110, 833-844.	1.9	15
81	Predicting intraspecific trait variation among California's grasses. Journal of Ecology, 2021, 109, 2662-2677.	1.9	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 "Functional Traits and Niche-Based Tree Community Assembly in an Amazonian Forest". Science, 2009, 324, 1015-1015.	6.0	11
84	Soil Microbes Generate Stronger Fitness Differences than Stabilization among California Annual Plants. American Naturalist, 2021, 197, E30-E39.	1.0	11
85	Response to Comments on "Disentangling the Drivers of β^2 Diversity Along Latitudinal and Elevational Gradients". Science, 2012, 335, 1573-1573.	6.0	8
86	Neighborhood effects explain increasing asynchronous seedling survival in a subtropical forest. Ecology, 2019, 100, e02821.	1.5	8
87	Commercial Plant Production and Consumption Still Follow the Latitudinal Gradient in Species Diversity despite Economic Globalization. PLoS ONE, 2016, 11, e0163002.	1.1	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.	4.2	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.	0.5	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.	0.8	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.	0.9	2
93	Functional trait and phylogenetic tests of community assembly across spatial scales in an Amazonian forest. Ecological Monographs, 2010, 80, 100318220649095.	2.4	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