

W Daniel Kissling

List of Publications by Year in descending order

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Version: 2024-02-01

102
papers

8,513
citations

71061

41
h-index

51562

86
g-index

110
all docs

110
docs citations

110
times ranked

13425
citing authors

#	ARTICLE	IF	CITATIONS
1	The role of biotic interactions in shaping distributions and realised assemblages of species: implications for species distribution modelling. <i>Biological Reviews</i> , 2013, 88, 15-30.	4.7	1,224
2	TRY plant trait database – enhanced coverage and open access. <i>Global Change Biology</i> , 2020, 26, 119-188.	4.2	1,038
3	Geological and climatic influences on mountain biodiversity. <i>Nature Geoscience</i> , 2018, 11, 718-725.	5.4	390
4	Spatial autocorrelation and the selection of simultaneous autoregressive models. <i>Global Ecology and Biogeography</i> , 2007, 17, 070618060123007-???	2.7	352
5	Biodiversity, Species Interactions and Ecological Networks in a Fragmented World. <i>Advances in Ecological Research</i> , 2012, 46, 89-210.	1.4	284
6	How to understand species' niches and range dynamics: a demographic research agenda for biogeography. <i>Journal of Biogeography</i> , 2012, 39, 2146-2162.	1.4	249
7	Geographical ecology of the palms (Arecaceae): determinants of diversity and distributions across spatial scales. <i>Annals of Botany</i> , 2011, 108, 1391-1416.	1.4	234
8	Building essential biodiversity variables (EBVs) of species distribution and abundance at a global scale. <i>Biological Reviews</i> , 2018, 93, 600-625.	4.7	218
9	Cenozoic imprints on the phylogenetic structure of palm species assemblages worldwide. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 7379-7384.	3.3	209
10	Spatial patterns of woody plant and bird diversity: functional relationships or environmental effects?. <i>Global Ecology and Biogeography</i> , 2008, 17, 327-339.	2.7	197
11	Food plant diversity as broad-scale determinant of avian frugivore richness. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2007, 274, 799-808.	1.2	188
12	Towards global data products of Essential Biodiversity Variables on species traits. <i>Nature Ecology and Evolution</i> , 2018, 2, 1531-1540.	3.4	163
13	Challenges and prospects in the telemetry of insects. <i>Biological Reviews</i> , 2014, 89, 511-530.	4.7	160
14	Monitoring biodiversity change through effective global coordination. <i>Current Opinion in Environmental Sustainability</i> , 2017, 29, 158-169.	3.1	147
15	The global distribution of frugivory in birds. <i>Global Ecology and Biogeography</i> , 2009, 18, 150-162.	2.7	125
16	Global patterns and drivers of phylogenetic structure in island floras. <i>Scientific Reports</i> , 2015, 5, 12213.	1.6	123
17	Keystone species in seed dispersal networks are mainly determined by dietary specialization. <i>Oikos</i> , 2015, 124, 1031-1039.	1.2	117
18	Extending point pattern analysis for objects of finite size and irregular shape. <i>Journal of Ecology</i> , 2006, 94, 825-837.	1.9	116

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19	Establishing macroecological trait datasets: digitalization, extrapolation, and validation of diet preferences in terrestrial mammals worldwide. <i>Ecology and Evolution</i> , 2014, 4, 2913-2930.	0.8	109
20	Trait-Based Assessments of Climate-Change Impacts on Interacting Species. <i>Trends in Ecology and Evolution</i> , 2020, 35, 319-328.	4.2	106
21	Priority list of biodiversity metrics to observe from space. <i>Nature Ecology and Evolution</i> , 2021, 5, 896-906.	3.4	101
22	To advance sustainable stewardship, we must document not only biodiversity but geodiversity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 16155-16158.	3.3	96
23	Ecological specialization matters: long-term trends in butterfly species richness and assemblage composition depend on multiple functional traits. <i>Diversity and Distributions</i> , 2015, 21, 792-802.	1.9	95
24	Omnivory in birds is a macroevolutionary sink. <i>Nature Communications</i> , 2016, 7, 11250.	5.8	95
25	Quaternary and pre-Quaternary historical legacies in the global distribution of a major tropical plant lineage. <i>Global Ecology and Biogeography</i> , 2012, 21, 909-921.	2.7	91
26	Origins of global mountain plant biodiversity: Testing the "mountain geobiodiversity hypothesis". <i>Journal of Biogeography</i> , 2019, 46, 2826-2838.	1.4	87
27	Mammal predator and prey species richness are strongly linked at macroscales. <i>Ecology</i> , 2013, 94, 1112-1122.	1.5	85
28	The minimum land area requiring conservation attention to safeguard biodiversity. <i>Science</i> , 2022, 376, 1094-1101.	6.0	85
29	Frugivory-related traits promote speciation of tropical palms. <i>Nature Ecology and Evolution</i> , 2017, 1, 1903-1911.	3.4	77
30	Local forest structure, climate and human disturbance determine regional distribution of boreal bird species richness in Alberta, Canada. <i>Journal of Biogeography</i> , 2013, 40, 1131-1142.	1.4	72
31	Morphological trait matching shapes plant-frugivore networks across the Andes. <i>Ecography</i> , 2018, 41, 1910-1919.	2.1	71
32	Multispecies interactions across trophic levels at macroscales: retrospective and future directions. <i>Ecography</i> , 2015, 38, 346-357.	2.1	65
33	Spatial structure of an individual-based plant-pollinator network. <i>Oikos</i> , 2014, 123, 1301-1310.	1.2	59
34	Fundamental species traits explain provisioning services of tropical American palms. <i>Nature Plants</i> , 2017, 3, 16220.	4.7	59
35	Extinction-driven changes in frugivore communities on oceanic islands. <i>Ecography</i> , 2018, 41, 1245-1255.	2.1	53
36	Use and categorization of Light Detection and Ranging vegetation metrics in avian diversity and species distribution research. <i>Diversity and Distributions</i> , 2019, 25, 1045-1059.	1.9	52

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37	PalmTraits 1.0, a species-level functional trait database of palms worldwide. <i>Scientific Data</i> , 2019, 6, 178.	2.4	51
38	To adapt or go extinct? The fate of megafaunal palm fruits under past global change. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2018, 285, 20180882.	1.2	50
39	Phenology of high-arctic butterflies and their floral resources: Species-specific responses to climate change. <i>Environmental Epigenetics</i> , 2014, 60, 243-251.	0.9	49
40	Functional traits help to explain half-century long shifts in pollinator distributions. <i>Scientific Reports</i> , 2016, 6, 24451.	1.6	49
41	Niche packing and expansion account for species richness–productivity relationships in global bird assemblages. <i>Global Ecology and Biogeography</i> , 2018, 27, 604-615.	2.7	47
42	Towards a comprehensive climate impacts assessment of solar geoengineering. <i>Earth's Future</i> , 2017, 5, 93-106.	2.4	45
43	Multimillion-year climatic effects on palm species diversity in Africa. <i>Ecology</i> , 2013, 94, 2426-2435.	1.5	44
44	The Bari Manifesto: An interoperability framework for essential biodiversity variables. <i>Ecological Informatics</i> , 2019, 49, 22-31.	2.3	43
45	Functionally specialised birds respond flexibly to seasonal changes in fruit availability. <i>Journal of Animal Ecology</i> , 2017, 86, 800-811.	1.3	42
46	Beyond the Last Glacial Maximum: Island endemism is best explained by long-lasting archipelago configurations. <i>Global Ecology and Biogeography</i> , 2019, 28, 184-197.	2.7	41
47	Towards global interoperability for supporting biodiversity research on essential biodiversity variables (EBVs). <i>Biodiversity</i> , 2015, 16, 99-107.	0.5	38
48	The Neogene rise of the tropical Andes facilitated diversification of wax palms (<i>Ceroxylon</i>) the Linnean Society, 2016, 182, 303-317.	0.8	38
49	Pantropical modelling of canopy functional traits using Sentinel-2 remote sensing data. <i>Remote Sensing of Environment</i> , 2021, 252, 112122.	4.6	38
50	Geographical variation and environmental correlates of functional trait distributions in palms (Arecaceae) across the New World. <i>Botanical Journal of the Linnean Society</i> , 2015, 179, 602-617.	0.8	37
51	Global diversification of a tropical plant growth form: environmental correlates and historical contingencies in climbing palms. <i>Frontiers in Genetics</i> , 2015, 5, 452.	1.1	37
52	Frugivore-fruit size relationships between palms and mammals reveal past and future defaunation impacts. <i>Nature Communications</i> , 2020, 11, 4904.	5.8	35
53	Projected impacts of climate change on functional diversity of frugivorous birds along a tropical elevational gradient. <i>Scientific Reports</i> , 2019, 9, 17708.	1.6	34
54	Palm fruit colours are linked to the broad-scale distribution and diversification of primate colour vision systems. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2020, 287, 20192731.	1.2	34

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55	An operational definition of essential biodiversity variables. <i>Biodiversity and Conservation</i> , 2017, 26, 2967-2972.	1.2	33
56	Biogeographical, environmental and anthropogenic determinants of global patterns in bird taxonomic and trait turnover. <i>Global Ecology and Biogeography</i> , 2017, 26, 1190-1200.	2.7	33
57	A synthesis of animal-mediated seed dispersal of palms reveals distinct biogeographical differences in species interactions. <i>Journal of Biogeography</i> , 2019, 46, 466-484.	1.4	32
58	Downsizing of animal communities triggers stronger functional than structural decay in seed-dispersal networks. <i>Nature Communications</i> , 2020, 11, 1582.	5.8	32
59	Identifying fine-scale habitat preferences of threatened butterflies using airborne laser scanning. <i>Diversity and Distributions</i> , 2021, 27, 1251-1264.	1.9	30
60	Historical colonization and dispersal limitation supplement climate and topography in shaping species richness of African lizards (Reptilia: Agamidae). <i>Scientific Reports</i> , 2016, 6, 34014.	1.6	29
61	Which frugivory-related traits facilitated historical long-distance dispersal in the custard apple family (Annonaceae)? <i>Journal of Biogeography</i> , 2019, 46, 1874-1888.	1.4	28
62	Climate change reshapes the eco-evolutionary dynamics of a Neotropical seed dispersal system. <i>Global Ecology and Biogeography</i> , 2021, 30, 1129-1138.	2.7	27
63	Impacts of large herbivores on spinescence and abundance of palms in the Pantanal, Brazil. <i>Botanical Journal of the Linnean Society</i> , 2016, 182, 465-479.	0.8	24
64	Environmental correlates of phylogenetic endemism in amphibians and the conservation of refugia in the Coastal Forests of Eastern Africa. <i>Diversity and Distributions</i> , 2017, 23, 875-887.	1.9	24
65	Global plant-frugivore trait matching is shaped by climate and biogeographic history. <i>Ecology Letters</i> , 2022, 25, 686-696.	3.0	24
66	Historical changes in the importance of climate and land use as determinants of Dutch pollinator distributions. <i>Journal of Biogeography</i> , 2017, 44, 696-707.	1.4	23
67	Global variation in woodpecker species richness shaped by tree availability. <i>Journal of Biogeography</i> , 2017, 44, 1824-1835.	1.4	22
68	A global spatially explicit database of changes in island palaeo-area and archipelago configuration during the late Quaternary. <i>Global Ecology and Biogeography</i> , 2018, 27, 500-505.	2.7	22
69	Oviposition site selection of an endangered butterfly at local spatial scales. <i>Journal of Insect Conservation</i> , 2015, 19, 377-391.	0.8	21
70	Associated evolution of fruit size, fruit colour and spines in Neotropical palms. <i>Journal of Evolutionary Biology</i> , 2020, 33, 858-868.	0.8	21
71	Identification of Linear Vegetation Elements in a Rural Landscape Using LiDAR Point Clouds. <i>Remote Sensing</i> , 2019, 11, 292.	1.8	20
72	Late Cenozoic climate and the phylogenetic structure of regional conifer floras worldwide. <i>Global Ecology and Biogeography</i> , 2015, 24, 1136-1148.	2.7	19

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73	The mutualism-antagonism continuum in Neotropical palm-frugivore interactions: from interaction outcomes to ecosystem dynamics. <i>Biological Reviews</i> , 2022, 97, 527-553.	4.7	18
74	Canopy height explains species richness in the largest clade of Neotropical lianas. <i>Global Ecology and Biogeography</i> , 2020, 29, 26-37.	2.7	17
75	eEcoLiDAR, eScience infrastructure for ecological applications of LiDAR point clouds: reconstructing the 3D ecosystem structure for animals at regional to continental scales. <i>Research Ideas and Outcomes</i> , 0, 3, e14939.	1.0	17
76	Functional biogeography of dietary strategies in birds. <i>Global Ecology and Biogeography</i> , 2019, 28, 1004-1017.	2.7	16
77	The Cenozoic history of palms: Global diversification, biogeography and the decline of megathermal forests. <i>Global Ecology and Biogeography</i> , 2022, 31, 425-439.	2.7	16
78	Better together? Assessing different remote sensing products for predicting habitat suitability of wetland birds. <i>Diversity and Distributions</i> , 2022, 28, 685-699.	1.9	15
79	Classifying wetland-related land cover types and habitats using fine-scale lidar metrics derived from country-wide Airborne Laser Scanning. <i>Remote Sensing in Ecology and Conservation</i> , 2021, 7, 80-96.	2.2	14
80	Research questions to facilitate the future development of European long-term ecosystem research infrastructures: A horizon scanning exercise. <i>Journal of Environmental Management</i> , 2019, 250, 109479.	3.8	13
81	Research infrastructure challenges in preparing essential biodiversity variables data products for alien invasive species. <i>Environmental Research Letters</i> , 2019, 14, 025005.	2.2	13
82	Quantifying 3D vegetation structure in wetlands using differently measured airborne laser scanning data. <i>Ecological Indicators</i> , 2021, 127, 107752.	2.6	13
83	Projecting consequences of global warming for the functional diversity of fleshy-fruited plants and frugivorous birds along a tropical elevational gradient. <i>Diversity and Distributions</i> , 2019, 25, 1362-1374.	1.9	12
84	The megaherbivore gap after the non-avian dinosaur extinctions modified trait evolution and diversification of tropical palms. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2022, 289, 20212633.	1.2	12
85	Key impacts of climate engineering on biodiversity and ecosystems, with priorities for future research. <i>Journal of Integrative Environmental Sciences</i> , 0, , 1-26.	1.0	11
86	Notebook-as-a-VR (NaaVRE): From private notebooks to a collaborative cloud virtual research environment. <i>Software - Practice and Experience</i> , 2022, 52, 1947-1966.	2.5	11
87	Spatial scale dependence of factors driving climate regulation services in the Americas. <i>Global Ecology and Biogeography</i> , 2018, 27, 828-838.	2.7	9
88	Has frugivory influenced the macroecology and diversification of a tropical keystone plant family?. <i>Research Ideas and Outcomes</i> , 0, 3, e14944.	1.0	9
89	Animal telemetry: Follow the insects. <i>Science</i> , 2015, 349, 597-597.	6.0	8
90	Deconstructing species richness-environment relationships in Neotropical lianas. <i>Journal of Biogeography</i> , 2020, 47, 2168-2180.	1.4	8

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91	Niche separation of wetland birds revealed from airborne laser scanning. <i>Ecography</i> , 2021, 44, 907-918.	2.1	8
92	Integration and harmonization of trait data from plant individuals across heterogeneous sources. <i>Ecological Informatics</i> , 2021, 62, 101206.	2.3	8
93	Functional susceptibility of tropical forests to climate change. <i>Nature Ecology and Evolution</i> , 2022, 6, 878-889.	3.4	8
94	Ecological and evolutionary significance of primates' most consumed plant families. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2021, 288, 20210737.	1.2	7
95	Biodiversity Observations Miner: A web application to unlock primary biodiversity data from published literature. <i>Biodiversity Data Journal</i> , 2019, 7, e28737.	0.4	5
96	Avian seed dispersal may be insufficient for plants to track future temperature change on tropical mountains. <i>Global Ecology and Biogeography</i> , 2022, 31, 848-860.	2.7	5
97	The role of deterministic succession during forest development within a southern African savanna. <i>Biotropica</i> , 2021, 53, 466-476.	0.8	4
98	Megafrugivores as fading shadows of the past: extant frugivores and the abiotic environment as the most important determinants of the distribution of palms in Madagascar. <i>Ecography</i> , 2022, 2022, .	2.1	4
99	A minimum set of Information Standards for Essential Biodiversity Variables. <i>Biodiversity Information Science and Standards</i> , 0, 3, .	0.0	3
100	Independent variation of avian sensitivity to climate change and trait-based adaptive capacity along a tropical elevational gradient. <i>Diversity and Distributions</i> , 0, , .	1.9	1
101	Understanding the relationship between fruit colour and primate vision requires multiple lines of evidence. A reply to Heymann & Fuzessy. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2021, 288, 20202981.	1.2	0
102	Towards an Essential Biodiversity Variable for Species Interactions. <i>Biodiversity Information Science and Standards</i> , 0, 2, e25409.	0.0	0