Cory Merow

List of Publications by Year
in descending order

53 papers	7,339 citations	159358 30 h-index	168136 53 g-index
60 all docs	60 docs citations	60 times ranked	10720 citing authors

#	Article	IF	Citations
1	A practical guide to MaxEnt for modeling species' distributions: what it does, and why inputs and settings matter. Ecography, 2013, 36, 1058-1069.	2.1	2,361
2	What do we gain from simplicity versus complexity in species distribution models?. Ecography, 2014, 37, 1267-1281.	2.1	438
3	A standard protocol for reporting species distribution models. Ecography, 2020, 43, 1261-1277.	2.1	397
4	The projected timing of abrupt ecological disruption from climate change. Nature, 2020, 580, 496-501.	13.7	394
5	Climate change increases cross-species viral transmission risk. Nature, 2022, 607, 555-562.	13.7	361
6	Essential biodiversity variables for mapping and monitoring species populations. Nature Ecology and Evolution, 2019, 3, 539-551.	3.4	283
7	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.	2.2	241
8	Advancing population ecology with integral projection models: a practical guide. Methods in Ecology and Evolution, 2014, 5, 99-110.	2.2	231
9	Seasonality and uncertainty in global COVID-19 growth rates. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 27456-27464.	3.3	195
10	The commonness of rarity: Global and future distribution of rarity across land plants. Science Advances, 2019, 5, eaaz0414.	4.7	194
11	<scp>Wallace</scp>: A flexible platform for reproducible modeling of species niches and distributions built for community expansion. Methods in Ecology and Evolution, 2018, 9, 1151-1156.	2.2	170
12	Areas of global importance for conserving terrestrial biodiversity, carbon and water. Nature Ecology and Evolution, 2021, 5, 1499-1509.	3.4	147
13	A checklist for maximizing reproducibility of ecological niche models. Nature Ecology and Evolution, 2019, 3, 1382-1395.	3.4	134
14	Does probability of occurrence relate to population dynamics?. Ecography, 2014, 37, 1155-1166.	2.1	127
15	Towards Process-based Range Modeling of Many Species. Trends in Ecology and Evolution, 2016, 31, 860-871.	4.2	123
16	On using integral projection models to generate demographically driven predictions of species' distributions: development and validation using sparse data. Ecography, 2014, 37, 1167-1183.	2.1	121
17	30% land conservation and climate action reduces tropical extinction risk by more than 50%. Ecography, 2020, 43, 943-953.	2.1	94
18	A comparison of <scp>M</scp>axlike and <scp>M</scp>axent for modelling species distributions. Methods in Ecology and Evolution, 2014, 5, 215-225.	2.2	91

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19	Climate change both facilitates and inhibits invasive plant ranges in New England. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E3276-E3284.	3.3	87
20	The number of tree species on Earth. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	86
21	High fire frequency and the impact of the 2019â€“2020 megafires on Australian plant diversity. Diversity and Distributions, 2021, 27, 1166-1179.	1.9	72
22	Integrating occurrence data and expert maps for improved species range predictions. Global Ecology and Biogeography, 2017, 26, 243-258.	2.7	71
23	Developing Dynamic Mechanistic Species Distribution Models: Predicting Bird-Mediated Spread of Invasive Plants across Northeastern North America. American Naturalist, 2011, 178, 30-43.	1.0	66
24	How deregulation, drought and increasing fire impact Amazonian biodiversity. Nature, 2021, 597, 516-521.	13.7	65
25	Big data of tree species distributions: how big and how good?. Forest Ecosystems, 2017, 4, .	1.3	62
26	A protocol for an intercomparison of biodiversity and ecosystem services models using harmonized land-use and climate scenarios. Geoscientific Model Development, 2018, 11, 4537-4562.	1.3	61
27	Intensifying postfire weather and biological invasion drive species loss in a Mediterranean-type biodiversity hotspot. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 4697-4702.	3.3	60
28	Improving niche and range estimates with Maxent and point process models by integrating spatially explicit information. Global Ecology and Biogeography, 2016, 25, 1022-1036.	2.7	53
29	Demography beyond the population. Journal of Ecology, 2016, 104, 271-280.	1.9	49
30	Forest community response to invasive pathogens: the case of ash dieback in a British woodland. Journal of Ecology, 2016, 104, 315-330.	1.9	38
31	A Test of Species Distribution Model Transferability Across Environmental and Geographic Space for 108 Western North American Tree Species. Frontiers in Ecology and Evolution, 2021, 9, .	1.1	32
32	Statistical modelling of annual variation for inference on stochastic population dynamics using Integral Projection Models. Methods in Ecology and Evolution, 2015, 6, 1007-1017.	2.2	31
33	Inferring forest fate from demographic data: from vital rates to population dynamic models. Proceedings of the Royal Society B: Biological Sciences, 2018, 285, 20172050.	1.2	31
34	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.	2.7	29
35	Functional diversity of the Australian flora: Strong links to species richness and climate. Journal of Vegetation Science, 2021, 32, e13018.	1.1	28
36	Elevated extinction risk of cacti under climate change. Nature Plants, 2022, 8, 366-372.	4.7	28

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37	Plant spectral diversity as a surrogate for species, functional and phylogenetic diversity across a hyperâ€diverse biogeographic region. Global Ecology and Biogeography, 2021, 30, 1403-1417.	2.7	21
38	Can entropy maximization use functional traits to explain species abundances? A comprehensive evaluation. Ecology, 2011, 92, 1523-1537.	1.5	19
39	Species' range model metadata standards: RMMS. Global Ecology and Biogeography, 2019, 28, 1912-1924.	2.7	18
40	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
41	Processes of community assembly in an environmentally heterogeneous, high biodiversity region. Ecography, 2017, 40, 561-576.	2.1	17
42	Speeding Up Ecological and Evolutionary Computations in R; Essentials of High Performance Computing for Biologists. PLoS Computational Biology, 2015, 11, e1004140.	1.5	16
43	Continentalâ€scale 1 km hummingbird diversity derived from fusing point records with lateral and elevational expert information. Ecography, 2021, 44, 640-652.	2.1	16
44	The adaptive challenge of extreme conditions shapes evolutionary diversity of plant assemblages at continental scales. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	15
45	An integrated approach to assessing abiotic and biotic threats to postâ€fire plant species recovery: Lessons from the 2019â€"2020 Australian fire season. Global Ecology and Biogeography, 2022, 31, 2056-2069.	2.7	14
46	Best practices for reporting climate data in ecology. Nature Climate Change, 2018, 8, 92-94.	8.1	10
47	meteR: an r package for testing the maximum entropy theory of ecology. Methods in Ecology and Evolution, 2017, 8, 241-247.	2.2	9
48	Climate change risk to southern African wild food plants. Regional Environmental Change, 2021, 21, 1.	1.4	8
49	occCite: Tools for querying and managing large biodiversity occurrence datasets. Ecography, 2021, 44, 1228-1235.	2.1	8
50	Reply to: Spatial scale and the synchrony of ecological disruption. Nature, 2021, 599, E11-E13.	13.7	4
51	Serotiny in the South African shrub Protea repens is associated with gradients of precipitation, temperature, and fire intensity. Plant Ecology, 2019, 220, 97-109.	0.7	3
52	Spatiotemporal effects of Hurricane Ivan on an endemic epiphytic orchid: 10 years of follow-up. Plant Ecology and Diversity, 2020, 13, 29-45.	1.0	3
53	How to Publish at Pandemic Speed. BioScience, 0, , .	2.2	0