

Carsten F Dormann

List of Publications by Citations

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146
papers

19,581
citations

52
h-index

139
g-index

164
ext. papers

24,086
ext. citations

6.1
avg, IF

6.76
L-index

#	Paper	IF	Citations
146	Collinearity: a review of methods to deal with it and a simulation study evaluating their performance. <i>Ecography</i> , 2013 , 36, 27-46	6.5	4125
145	Methods to account for spatial autocorrelation in the analysis of species distributional data: a review. <i>Ecography</i> , 2007 , 30, 609-628	6.5	2078
144	Landscape moderation of biodiversity patterns and processes - eight hypotheses. <i>Biological Reviews</i> , 2012 , 87, 661-85	13.5	1121
143	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	13.5	931
142	Indices, Graphs and Null Models: Analyzing Bipartite Ecological Networks. <i>Open Ecology Journal</i> , 2009 , 2, 7-24	2	830
141	A quantitative review of ecosystem service studies: approaches, shortcomings and the road ahead. <i>Journal of Applied Ecology</i> , 2011 , 48, 630-636	5.8	637
140	Ecological networks--beyond food webs. <i>Journal of Animal Ecology</i> , 2009 , 78, 253-69	4.7	615
139	Cross-validation strategies for data with temporal, spatial, hierarchical, or phylogenetic structure. <i>Ecography</i> , 2017 , 40, 913-929	6.5	566
138	Effects of incorporating spatial autocorrelation into the analysis of species distribution data. <i>Global Ecology and Biogeography</i> , 2007 , 16, 129-138	6.1	425
137	Correlation and process in species distribution models: bridging a dichotomy. <i>Journal of Biogeography</i> , 2012 , 39, 2119-2131	4.1	414
136	Promising the future? Global change projections of species distributions. <i>Basic and Applied Ecology</i> , 2007 , 8, 387-397	3.2	332
135	Standards for distribution models in biodiversity assessments. <i>Science Advances</i> , 2019 , 5, eaat4858	14.3	309
134	Spillover of functionally important organisms between managed and natural habitats. <i>Agriculture, Ecosystems and Environment</i> , 2012 , 146, 34-43	5.7	298
133	Towards novel approaches to modelling biotic interactions in multispecies assemblages at large spatial extents. <i>Journal of Biogeography</i> , 2012 , 39, 2163-2178	4.1	282
132	Crop pests and predators exhibit inconsistent responses to surrounding landscape composition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E7863-E7870	11.5	265
131	A method for detecting modules in quantitative bipartite networks. <i>Methods in Ecology and Evolution</i> , 2014 , 5, 90-98	7.7	257
130	A quantitative index of land-use intensity in grasslands: Integrating mowing, grazing and fertilization. <i>Basic and Applied Ecology</i> , 2012 , 13, 207-220	3.2	240

129	Specialization of mutualistic interaction networks decreases toward tropical latitudes. <i>Current Biology</i> , 2012 , 22, 1925-31	6.3	223
128	Outstanding Challenges in the Transferability of Ecological Models. <i>Trends in Ecology and Evolution</i> , 2018 , 33, 790-802	10.9	213
127	Spatial and temporal trends of global pollination benefit. <i>PLoS ONE</i> , 2012 , 7, e35954	3.7	208
126	Stacking species distribution models and adjusting bias by linking them to macroecological models. <i>Global Ecology and Biogeography</i> , 2014 , 23, 99-112	6.1	196
125	Bee diversity effects on pollination depend on functional complementarity and niche shifts. <i>Ecology</i> , 2013 , 94, 2042-54	4.6	182
124	The interplay of landscape composition and configuration: new pathways to manage functional biodiversity and agroecosystem services across Europe. <i>Ecology Letters</i> , 2019 , 22, 1083-1094	10	171
123	Interannual variation in land-use intensity enhances grassland multidiversity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 308-13	11.5	166
122	Expansion of mass-flowering crops leads to transient pollinator dilution and reduced wild plant pollination. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2011 , 278, 3444-51	4.4	154
121	Components of uncertainty in species distribution analysis: a case study of the Great Grey Shrike. <i>Ecology</i> , 2008 , 89, 3371-86	4.6	153
120	A standard protocol for reporting species distribution models. <i>Ecography</i> , 2020 , 43, 1261-1277	6.5	141
119	Mass-flowering crops enhance wild bee abundance. <i>Oecologia</i> , 2013 , 172, 477-84	2.9	138
118	Species abundance distributions and richness estimations in fungal metagenomics--lessons learned from community ecology. <i>Molecular Ecology</i> , 2011 , 20, 275-85	5.7	134
117	Effects of landscape structure and land-use intensity on similarity of plant and animal communities. <i>Global Ecology and Biogeography</i> , 2007 , 16, 774-787	6.1	133
116	The PREDICTS database: a global database of how local terrestrial biodiversity responds to human impacts. <i>Ecology and Evolution</i> , 2014 , 4, 4701-35	2.8	132
115	What's on the horizon for macroecology?. <i>Ecography</i> , 2012 , 35, 673-683	6.5	129
114	Ecological, historical and evolutionary determinants of modularity in weighted seed-dispersal networks. <i>Ecology Letters</i> , 2014 , 17, 454-63	10	125
113	Ecological networks are more sensitive to plant than to animal extinction under climate change. <i>Nature Communications</i> , 2016 , 7, 13965	17.4	118
112	The potential for indirect effects between co-flowering plants via shared pollinators depends on resource abundance, accessibility and relatedness. <i>Ecology Letters</i> , 2014 , 17, 1389-99	10	112

111	Biotic interactions in species distribution modelling: 10 questions to guide interpretation and avoid false conclusions. <i>Global Ecology and Biogeography</i> , 2018 , 27, 1004-1016	6.1	111
110	Model averaging in ecology: a review of Bayesian, information-theoretic, and tactical approaches for predictive inference. <i>Ecological Monographs</i> , 2018 , 88, 485-504	9	105
109	Food web structure and biocontrol in a four-trophic level system across a landscape complexity gradient. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2011 , 278, 2946-53	4.4	104
108	Static species distribution models in dynamically changing systems: how good can predictions really be?. <i>Ecography</i> , 2009 , 32, 733-744	6.5	100
107	Identifying Causes of Patterns in Ecological Networks: Opportunities and Limitations. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2017 , 48, 559-584	13.5	96
106	Current global risks to marine mammals: Taking stock of the threats. <i>Biological Conservation</i> , 2018 , 221, 44-58	6.2	93
105	Spatial validation reveals poor predictive performance of large-scale ecological mapping models. <i>Nature Communications</i> , 2020 , 11, 4540	17.4	92
104	Assessing the validity of autologistic regression. <i>Ecological Modelling</i> , 2007 , 207, 234-242	3	85
103	Landscape elements as potential barriers and corridors for bees, wasps and parasitoids. <i>Biological Conservation</i> , 2011 , 144, 1816-1825	6.2	82
102	Predator richness increases the effect of prey diversity on prey yield. <i>Nature Communications</i> , 2012 , 3, 1305	17.4	81
101	Set-aside management: How do succession, sowing patterns and landscape context affect biodiversity?. <i>Agriculture, Ecosystems and Environment</i> , 2011 , 143, 37-44	5.7	80
100	The former Iron Curtain still drives biodiversity-profit trade-offs in German agriculture. <i>Nature Ecology and Evolution</i> , 2017 , 1, 1279-1284	12.3	76
99	EDITOR'S CHOICE: REVIEW: Effects of land use on plant diversity A global meta-analysis. <i>Journal of Applied Ecology</i> , 2014 , 51, 1690-1700	5.8	72
98	Prediction uncertainty of environmental change effects on temperate European biodiversity. <i>Ecology Letters</i> , 2008 , 11, 235-44	10	70
97	TaqMan real-time PCR assays to assess arbuscular mycorrhizal responses to field manipulation of grassland biodiversity: effects of soil characteristics, plant species richness, and functional traits. <i>Applied and Environmental Microbiology</i> , 2010 , 76, 3765-75	4.8	62
96	Less than eight (and a half) misconceptions of spatial analysis. <i>Journal of Biogeography</i> , 2012 , 39, 995-998	4.1	57
95	Application of species richness estimators for the assessment of fungal diversity. <i>FEMS Microbiology Letters</i> , 2008 , 282, 205-13	2.9	56
94	Climatic niche evolution and species diversification in the Cape flora, South Africa. <i>Journal of Biogeography</i> , 2012 , 39, 2201-2211	4.1	52

93	Mind the gap! How well does Natura 2000 cover species of European interest?. <i>Nature Conservation</i> , 2012 , 3, 45-62		52
92	Evolution of climate niches in European mammals?. <i>Biology Letters</i> , 2010 , 6, 229-32	3.6	50
91	Competition and herbivory during salt marsh succession: the importance of forb growth strategy. <i>Journal of Ecology</i> , 2000 , 88, 571-583	6	50
90	On managing the red mason bee (<i>Osmia bicornis</i>) in apple orchards. <i>Apidologie</i> , 2011 , 42, 564-576	2.3	49
89	Blind spots in ecosystem services research and challenges for implementation. <i>Regional Environmental Change</i> , 2019 , 19, 2151-2172	4.3	49
88	Facilitation and competition in the high Arctic: the importance of the experimental approach. <i>Acta Oecologica</i> , 2002 , 23, 297-301	1.7	46
87	Experimental evidence rejects pairwise modelling approach to coexistence in plant communities. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2005 , 272, 1279-85	4.4	45
86	The influence of floral traits on specialization and modularity of plant-pollinator networks in a biodiversity hotspot in the Peruvian Andes. <i>Annals of Botany</i> , 2016 , 118, 415-29	4.1	44
85	Recruitment, growth and recovery of commercial tree species over 30 years following logging and thinning in a tropical rain forest. <i>Forest Ecology and Management</i> , 2017 , 385, 225-235	3.9	43
84	African elephant poaching rates correlate with local poverty, national corruption and global ivory price. <i>Nature Communications</i> , 2019 , 10, 2242	17.4	39
83	Medium-term dynamics of tree species composition in response to silvicultural intervention intensities in a tropical rain forest. <i>Biological Conservation</i> , 2015 , 191, 577-586	6.2	39
82	Linné's floral clock is slow without pollinators--flower closure and plant-pollinator interaction webs. <i>Ecology Letters</i> , 2011 , 14, 896-904	10	38
81	Wrong, but useful: regional species distribution models may not be improved by range-wide data under biased sampling. <i>Ecology and Evolution</i> , 2018 , 8, 2196-2206	2.8	37
80	Microsite conditions dominate habitat selection of the red mason bee (<i>Osmia bicornis</i> , Hymenoptera: Megachilidae) in an urban environment: A case study from Leipzig, Germany. <i>Landscape and Urban Planning</i> , 2011 , 103, 15-23	7.7	37
79	An evidence assessment tool for ecosystem services and conservation studies 2016 , 26, 1295-1301		36
78	Improved species-occurrence predictions in data-poor regions: using large-scale data and bias correction with down-weighted Poisson regression and Maxent. <i>Ecography</i> , 2018 , 41, 1161-1172	6.5	36
77	Accounting for geographical variation in species-area relationships improves the prediction of plant species richness at the global scale. <i>Journal of Biogeography</i> , 2014 , 41, 261-273	4.1	35
76	The responses of grassland plants to experimentally simulated climate change depend on land use and region. <i>Global Change Biology</i> , 2012 , 18, 127-137	11.4	35

75	Neighbour identity modifies effects of elevated temperature on plant performance in the High Arctic. <i>Global Change Biology</i> , 2004 , 10, 1587-1598	11.4	32
74	Fragmentation of nest and foraging habitat affects time budgets of solitary bees, their fitness and pollination services, depending on traits: Results from an individual-based model. <i>PLoS ONE</i> , 2018 , 13, e0188269	3.7	32
73	Quantifying forest structural diversity based on large-scale inventory data: a new approach to support biodiversity monitoring. <i>Forest Ecosystems</i> , 2018 , 5,	3.8	31
72	Crop-noncrop spillover: arable fields affect trophic interactions on wild plants in surrounding habitats. <i>Oecologia</i> , 2011 , 166, 433-41	2.9	29
71	Effects of warming and drought on potential N ₂ O emissions and denitrifying bacteria abundance in grasslands with different land-use. <i>FEMS Microbiology Ecology</i> , 2015 , 91,	4.3	27
70	Evaluating the effectiveness of retention forestry to enhance biodiversity in production forests of Central Europe using an interdisciplinary, multi-scale approach. <i>Ecology and Evolution</i> , 2020 , 10, 1489-1509	2.8	27
69	Response to Comment on Methods to account for spatial autocorrelation in the analysis of species distributional data: a review <i>Ecography</i> , 2009 , 32, 379-381	6.5	26
68	Temporal scale-dependence of plant-pollinator networks. <i>Oikos</i> , 2020 , 129, 1289-1302	4	25
67	Consequences of manipulations in carbon and nitrogen supply for concentration of anti-herbivore defence compounds in <i>Salix polaris</i> . <i>Ecoscience</i> , 2003 , 10, 312-318	1.1	25
66	Decaying trees improve nesting opportunities for cavity-nesting birds in temperate and boreal forests: A meta-analysis and implications for retention forestry. <i>Ecology and Evolution</i> , 2018 , 8, 8616-8626	2.8	24
65	Seeing through the static: the temporal dimension of plant-animal mutualistic interactions. <i>Ecology Letters</i> , 2021 , 24, 149-161	10	24
64	Disturbance intensity is a stronger driver of biomass recovery than remaining tree-community attributes in a managed Amazonian forest. <i>Journal of Applied Ecology</i> , 2018 , 55, 1647-1657	5.8	23
63	Forest-edge associated bees benefit from the proportion of tropical forest regardless of its edge length. <i>Biological Conservation</i> , 2018 , 220, 149-160	6.2	21
62	Organic farming favours insect-pollinated over non-insect pollinated forbs in meadows and wheat fields. <i>PLoS ONE</i> , 2013 , 8, e54818	3.7	21
61	Flowering, growth and defence in the two sexes: consequences of herbivore exclusion for <i>Salix polaris</i> . <i>Functional Ecology</i> , 2002 , 16, 649-656	5.6	21
60	Mapping water quality-related ecosystem services: concepts and applications for nitrogen retention and pesticide risk reduction. <i>International Journal of Biodiversity Science, Ecosystem Services & Management</i> , 2012 , 8, 35-49		17
59	Occurrence pattern of <i>Pararge aegeria</i> (Lepidoptera: Nymphalidae) with respect to local habitat suitability, climate and landscape structure. <i>Landscape Ecology</i> , 2006 , 21, 989-1001	4.3	17
58	Plant species richness increases with light availability, but not variability, in temperate forests understorey. <i>BMC Ecology</i> , 2020 , 20, 43	2.7	17

57	Effectiveness of light-reflecting devices: A systematic reanalysis of animal-vehicle collision data. <i>Accident Analysis and Prevention</i> , 2016 , 97, 242-260	6.1	16
56	Measurement and prediction of bark thickness in <i>Picea abies</i> : assessment of accuracy, precision, and sample size requirements. <i>Canadian Journal of Forest Research</i> , 2016 , 46, 39-47	1.9	16
55	Dispersal Ecology Informs Design of Large-Scale Wildlife Corridors. <i>PLoS ONE</i> , 2016 , 11, e0162989	3.7	15
54	Comparison of models for estimating bark thickness of <i>Picea abies</i> in southwest Germany: the role of tree, stand, and environmental factors. <i>Annals of Forest Science</i> , 2017 , 74, 1	3.1	14
53	A new model explaining the origin of different topologies in interaction networks. <i>Ecology</i> , 2019 , 100, e02796	4.6	14
52	Influence of Forest Harvest on Nitrate Concentration in Temperate Streams—A Meta-Analysis. <i>Forests</i> , 2017 , 8, 5	2.8	13
51	Does model-free forecasting really outperform the true model?. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, E3975	11.5	13
50	An efficient method to exploit LiDAR data in animal ecology. <i>Methods in Ecology and Evolution</i> , 2018 , 9, 893-904	7.7	13
49	Reassessing Neotropical angiosperm distribution patterns based on monographic data: a geometric interpolation approach. <i>Biodiversity and Conservation</i> , 2010 , 19, 1523-1546	3.4	12
48	No evidence for adaptation of two <i>Polygonum viviparum</i> morphotypes of different bulbil characteristics to length of growing season: abundance, biomass and germination. <i>Polar Biology</i> , 2002 , 25, 884-890	2	12
47	Cross-Scale Variation in Biodiversity-Environment Links Illustrated by Coastal Sandflat Communities. <i>PLoS ONE</i> , 2015 , 10, e0142411	3.7	12
46	Refuges from fire maintain pollinator-plant interaction networks. <i>Ecology and Evolution</i> , 2019 , 9, 5777-5786	7.8	11
45	Humpback whales extend their stay in a breeding ground in the Tropical Eastern Pacific. <i>ICES Journal of Marine Science</i> , 2020 , 77, 109-118	2.7	11
44	Computing AIC for black-box models using generalized degrees of freedom: A comparison with cross-validation. <i>Communications in Statistics Part B: Simulation and Computation</i> , 2018 , 47, 1382-1396	0.6	10
43	Temporal variability of ecological niches: a study on intertidal macrobenthic fauna. <i>Oikos</i> , 2013 , 122, 754-760	4	10
42	Competition hierarchy, transitivity and additivity: investigating the effect of fertilisation on plant-plant interactions using three common bryophytes. <i>Plant Ecology</i> , 2007 , 191, 171-184	1.7	10
41	Calibration of probability predictions from machine-learning and statistical models. <i>Global Ecology and Biogeography</i> , 2020 , 29, 760-765	6.1	9
40	Consistent set of additive biomass functions for eight tree species in Germany fit by nonlinear seemingly unrelated regression. <i>Annals of Forest Science</i> , 2018 , 75, 1	3.1	9

39	Modelling Species Distributions 2011 , 179-196		9
38	Detection probabilities for sessile organisms. <i>Ecosphere</i> , 2016 , 7, e01546	3.1	9
37	Squares of different sizes: effect of geographical projection on model parameter estimates in species distribution modeling. <i>Ecology and Evolution</i> , 2016 , 6, 202-11	2.8	9
36	Better Model Transfers Require Knowledge of Mechanisms. <i>Trends in Ecology and Evolution</i> , 2019 , 34, 489-490	10.9	8
35	Choices of abundance currency, community definition and diversity metric control the predictive power of macroecological models of biodiversity. <i>Global Ecology and Biogeography</i> , 2014 , 23, 468-478	6.1	8
34	Insect abundance in managed forests benefits from multi-layered vegetation. <i>Basic and Applied Ecology</i> , 2020 , 48, 124-135	3.2	8
33	Modelling the variation of bark thickness within and between European silver fir (<i>Abies alba</i> Mill.) trees in southwest Germany. <i>Forestry</i> , 2018 , 91, 283-294	2.2	7
32	Parametrische Statistik 2013 ,		7
31	Process, correlation and parameter fitting in species distribution models: a response to Kriticos et al. <i>Journal of Biogeography</i> , 2013 , 40, 612-613	4.1	6
30	No consistent effect of plant species richness on resistance to simulated climate change for above- or below-ground processes in managed grasslands. <i>BMC Ecology</i> , 2017 , 17, 23	2.7	5
29	Increasing connectivity enhances habitat specialists but simplifies plant-insect food webs. <i>Oecologia</i> , 2021 , 195, 539-546	2.9	5
28	Does Public Participation Shift German National Park Priorities Away from Nature Conservation?. <i>Environmental Conservation</i> , 2019 , 46, 84-91	3.3	5
27	Breaking the ecosystem services glass ceiling: realising impact. <i>Regional Environmental Change</i> , 2019 , 19, 2261-2274	4.3	4
26	Community structure and ecological specialization in plant-ant interactions. <i>Journal of Tropical Ecology</i> , 2015 , 31, 325-334	1.3	4
25	Environmental management: Synthesize evidence to steer decisions. <i>Nature</i> , 2016 , 529, 466	50.4	4
24	Neither global nor consistent: a technical comment on the tree diversity-productivity analysis of Liang et al. (2016)		4
23	Exploration of Concerns about the Evidence-Based Guideline Approach in Conservation Management: Hints from Medical Practice. <i>Environmental Management</i> , 2020 , 66, 435-449	3.1	4
22	Tree diversity reduces the risk of bark beetle infestation for preferred conifer species, but increases the risk for less preferred hosts. <i>Journal of Ecology</i> , 2021 , 109, 2649-2661	6	4

21	Spatial conservation prioritisation in data-poor countries: a quantitative sensitivity analysis using multiple taxa. <i>BMC Ecology</i> , 2020 , 20, 35	2.7	3
20	The influence of camera trap flash type on the behavioural reactions and trapping rates of red deer and roe deer. <i>Remote Sensing in Ecology and Conservation</i> , 2020 , 6, 399-410	5.3	3
19	European agroforestry has no unequivocal effect on biodiversity: a time-cumulative meta-analysis. <i>Bmc Ecology and Evolution</i> , 2021 , 21, 193	2.1	3
18	Parametrische Statistik 2017 ,		2
17	Co-occurrence patterns and the large-scale spatial structure of benthic communities in seagrass meadows and bare sand. <i>BMC Ecology</i> , 2020 , 20, 37	2.7	2
16	Food Webs versus Interaction Networks: Principles, Pitfalls, and Perspectives9-18		2
15	European agroforestry is no universal remedy for biodiversity: a time-cumulative meta-analysis		2
14	Within-day dynamics of plant-pollinator networks are dominated by early flower closure: an experimental test of network plasticity. <i>Oecologia</i> , 2021 , 196, 781-794	2.9	2
13	A new model explaining the origin of different topologies in interaction networks		1
12	Evidence Ranking Needs to Reflect Causality. <i>Trends in Ecology and Evolution</i> , 2020 , 35, 94-95	10.9	1
11	Quantitative Prediction of Interactions in Bipartite Networks Based on Traits, Abundances, and Phylogeny.. <i>American Naturalist</i> , 2022 , 199, 841-854	3.7	1
10	Wrong, but useful: regional species distribution models may not be improved by range-wide data under biased sampling 2018 , 8, 2196		1
9	Spatial behavior in rehabilitated orangutans in Sumatra: Where do they go?. <i>PLoS ONE</i> , 2019 , 14, e0215284	3.7	0
8	Population density estimates for terrestrial mammal species. <i>Global Ecology and Biogeography</i> , 2022 , 31, 978-994	6.1	0
7	Correlation and Association 2020 , 65-70		
6	Multiple Regression: Regression with Multiple Predictors 2020 , 207-226		
5	Samples, Random Variables, Histograms, Density Distribution 2020 , 1-12		
4	Multiple Regression in R 2020 , 227-255		

- 3 Curvature of LogsDevelopment of and Comparison between Different Calculation Approaches. *Forests*, **2021**, 12, 857 2.8
- 2 A systematic map of demographic data from elephant populations throughout Africa: implications for poaching and population analyses. *Mammal Review*, 5
- 1 Reply to: "Research on agroforestry systems and biodiversity conservation: what can we conclude so far and what should we improve?" by Boinot et al. 2022.. *Bmc Ecology and Evolution*, **2022**, 22, 65 21