

Florian Hartig

List of Publications by Year in descending order

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Version: 2024-02-01

83
papers

6,558
citations

117625
34
h-index

71685
76
g-index

94
all docs

94
docs citations

94
times ranked

10389
citing authors

#	ARTICLE	IF	CITATIONS
1	Cross-validation strategies for data with temporal, spatial, hierarchical, or phylogenetic structure. <i>Ecography</i> , 2017, 40, 913-929.	4.5	1,092
2	Correlation and process in species distribution models: bridging a dichotomy. <i>Journal of Biogeography</i> , 2012, 39, 2119-2131.	3.0	526
3	EU agricultural reform fails on biodiversity. <i>Science</i> , 2014, 344, 1090-1092.	12.6	449
4	Statistical inference for stochastic simulation models - theory and application. <i>Ecology Letters</i> , 2011, 14, 816-827.	6.4	320
5	Importance of sample size, data type and prediction method for remote sensing-based estimations of aboveground forest biomass. <i>Remote Sensing of Environment</i> , 2014, 154, 102-114.	11.0	290
6	How to understand species' niches and range dynamics: a demographic research agenda for biogeography. <i>Journal of Biogeography</i> , 2012, 39, 2146-2162.	3.0	249
7	Intraspecific trait variation across scales: implications for understanding global change responses. <i>Global Change Biology</i> , 2016, 22, 137-150.	9.5	238
8	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.	5.8	211
9	Model averaging in ecology: a review of Bayesian, information-theoretic, and tactical approaches for predictive inference. <i>Ecological Monographs</i> , 2018, 88, 485-504.	5.4	209
10	The Latitudinal Diversity Gradient: Novel Understanding through Mechanistic Eco-evolutionary Models. <i>Trends in Ecology and Evolution</i> , 2019, 34, 211-223.	8.7	151
11	Connecting dynamic vegetation models to data – an inverse perspective. <i>Journal of Biogeography</i> , 2012, 39, 2240-2252.	3.0	144
12	Mechanistic simulation models in macroecology and biogeography: state-of-art and prospects. <i>Ecography</i> , 2017, 40, 267-280.	4.5	127
13	A model with many small shifts for estimating species-specific diversification rates. <i>Nature Ecology and Evolution</i> , 2019, 3, 1086-1092.	7.8	96
14	Heavy and frequent thinning promotes drought adaptation in <i>Pinus sylvestris</i> forests. <i>Ecological Applications</i> , 2016, 26, 2190-2205.	3.8	95
15	Tree mortality submodels drive simulated long-term forest dynamics: assessing 15 models from the stand to global scale. <i>Ecosphere</i> , 2019, 10, e02616.	2.2	93
16	Machine learning algorithms to infer trait-matching and predict species interactions in ecological networks. <i>Methods in Ecology and Evolution</i> , 2020, 11, 281-293.	5.2	82
17	Functional flower traits and their diversity drive pollinator visitation. <i>Oikos</i> , 2017, 126, 1020-1030.	2.7	80
18	Bayesian calibration, comparison and averaging of six forest models, using data from Scots pine stands across Europe. <i>Forest Ecology and Management</i> , 2013, 289, 255-268.	3.2	79

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19	Smart spatial incentives for market-based conservation. <i>Biological Conservation</i> , 2009, 142, 779-788.	4.1	78
20	Chilling and forcing temperatures interact to predict the onset of wood formation in Northern Hemisphere conifers. <i>Global Change Biology</i> , 2019, 25, 1089-1105.	9.5	72
21	Ecological and economic conditions and associated institutional challenges for conservation banking in dynamic landscapes. <i>Landscape and Urban Planning</i> , 2014, 130, 64-72.	7.5	70
22	Community dynamics under environmental change: How can next generation mechanistic models improve projections of species distributions?. <i>Ecological Modelling</i> , 2016, 326, 63-74.	2.5	66
23	Explainable artificial intelligence enhances the ecological interpretability of black-box species distribution models. <i>Ecography</i> , 2021, 44, 199-205.	4.5	64
24	Biodiversity conservation in dynamic landscapes: trade-offs between number, connectivity and turnover of habitat patches. <i>Journal of Applied Ecology</i> , 2011, 48, 1227-1235.	4.0	60
25	Towards a New Generation of Trait-Flexible Vegetation Models. <i>Trends in Ecology and Evolution</i> , 2020, 35, 191-205.	8.7	59
26	Available and missing data to model impact of climate change on European forests. <i>Ecological Modelling</i> , 2020, 416, 108870.	2.5	58
27	Stratified aboveground forest biomass estimation by remote sensing data. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2015, 38, 229-241.	2.8	56
28	The total dispersal kernel: a review and future directions. <i>AoB PLANTS</i> , 2019, 11, plz042.	2.3	56
29	Assessing the response of forest productivity to climate extremes in Switzerland using model-data fusion. <i>Global Change Biology</i> , 2020, 26, 2463-2476.	9.5	54
30	gen3sis: A general engine for eco-evolutionary simulations of the processes that shape Earth's biodiversity. <i>PLoS Biology</i> , 2021, 19, e3001340.	5.6	54
31	Plant species richness increases with light availability, but not variability, in temperate forests understorey. <i>BMC Ecology</i> , 2020, 20, 43.	3.0	53
32	Estimating over- and understorey canopy density of temperate mixed stands by airborne LiDAR data. <i>Forestry</i> , 2016, 89, 69-81.	2.3	52
33	Conserving biodiversity with tradable permits under changing conservation costs and habitat restoration time lags. <i>Ecological Economics</i> , 2011, 70, 533-541.	5.7	50
34	A Minimal Model for the Latitudinal Diversity Gradient Suggests a Dominant Role for Ecological Limits. <i>American Naturalist</i> , 2019, 194, E122-E133.	2.1	41
35	Stay by thy neighbor? Social organization determines the efficiency of biodiversity markets with spatial incentives. <i>Ecological Complexity</i> , 2010, 7, 91-99.	2.9	40
36	Siberian plants shift their phenology in response to climate change. <i>Global Change Biology</i> , 2021, 27, 4435-4448.	9.5	40

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37	Do roe deer react to wildlife warning reflectors? A test combining a controlled experiment with field observations. <i>European Journal of Wildlife Research</i> , 2017, 63, 1.	1.4	34
38	Is Variation in Conspecific Negative Density Dependence Driving Tree Diversity Patterns at Large Scales?. <i>Trends in Ecology and Evolution</i> , 2021, 36, 151-163.	8.7	34
39	The PROFOUND Database for evaluating vegetation models and simulating climate impacts on European forests. <i>Earth System Science Data</i> , 2020, 12, 1295-1320.	9.9	33
40	Studying speciation and extinction dynamics from phylogenies: addressing identifiability issues. <i>Trends in Ecology and Evolution</i> , 2022, 37, 497-506.	8.7	33
41	EcoTRADE – A multi-player network game of a tradable permit market for biodiversity credits. <i>Environmental Modelling and Software</i> , 2010, 25, 1479-1480.	4.5	32
42	Parameter and uncertainty estimation for process-oriented population and distribution models: data, statistics and the niche. <i>Journal of Biogeography</i> , 2012, 39, 2225-2239.	3.0	32
43	Structure and community composition in a tropical forest suggest a change of ecological processes during stand development. <i>Forest Ecology and Management</i> , 2017, 404, 100-107.	3.2	32
44	Rapid changes in seed dispersal traits may modify plant responses to global change. <i>AoB PLANTS</i> , 2019, 11, plz020.	2.3	32
45	Environmental heterogeneity predicts global species richness patterns better than area. <i>Global Ecology and Biogeography</i> , 2021, 30, 842-851.	5.8	32
46	The internal structure of metacommunities. <i>Oikos</i> , 2022, 2022, .	2.7	32
47	Technical Note: Approximate Bayesian parameterization of a process-based tropical forest model. <i>Biogeosciences</i> , 2014, 11, 1261-1272.	3.3	31
48	Productivity of <i>Fagus sylvatica</i> under climate change – A Bayesian analysis of risk and uncertainty using the model 3-PG. <i>Forest Ecology and Management</i> , 2017, 401, 192-206.	3.2	31
49	Using synthetic data to evaluate the benefits of large field plots for forest biomass estimation with LiDAR. <i>Remote Sensing of Environment</i> , 2018, 213, 115-128.	11.0	31
50	The multi-dimensional nature of information drives prioritization of private over social information in ants. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2019, 286, 20191136.	2.6	31
51	Advancing an interdisciplinary framework to study seed dispersal ecology. <i>AoB PLANTS</i> , 2020, 12, plz048.	2.3	30
52	The Recruitment Niche Predicts Plant Community Assembly Across a Hydrological Gradient Along Plowed and Undisturbed Transects in a Former Agricultural Wetland. <i>Frontiers in Plant Science</i> , 2019, 10, 88.	3.6	28
53	Employing plant functional groups to advance seed dispersal ecology and conservation. <i>AoB PLANTS</i> , 2019, 11, plz006.	2.3	27
54	A new joint species distribution model for faster and more accurate inference of species associations from big community data. <i>Methods in Ecology and Evolution</i> , 2021, 12, 2159-2173.	5.2	27

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55	Inferring species interactions using Granger causality and convergent cross mapping. <i>Theoretical Ecology</i> , 2021, 14, 87-105.	1.0	26
56	Linking functional traits and demography to model species-rich communities. <i>Nature Communications</i> , 2021, 12, 2724.	12.8	26
57	Defaunation of large-bodied frugivores reduces carbon storage in a tropical forest of Southeast Asia. <i>Scientific Reports</i> , 2019, 9, 10015.	3.3	24
58	r3PG – An R package for simulating forest growth using the 3D process-based model. <i>Methods in Ecology and Evolution</i> , 2020, 11, 1470-1475.	5.2	24
59	Global warming likely to enhance black locust (<i>Robinia pseudoacacia</i> L.) growth in a Mediterranean riparian forest. <i>Forest Ecology and Management</i> , 2019, 449, 117448.	3.2	23
60	Last-century forest productivity in a managed dry-edge Scots pine population: the two sides of climate warming. <i>Ecological Applications</i> , 2018, 28, 95-105.	3.8	22
61	Towards robust statistical inference for complex computer models. <i>Ecology Letters</i> , 2021, 24, 1251-1261.	6.4	22
62	Climate-driven, but dynamic and complex? A reconciliation of competing hypotheses for species' distributions. <i>Ecology Letters</i> , 2022, 25, 38-51.	6.4	20
63	Comment on ‘Plant diversity increases with the strength of negative density dependence at the global scale’. <i>Science</i> , 2018, 360, .	12.6	19
64	Calibrating an individual-based movement model to predict functional connectivity for little owls. <i>Ecological Applications</i> , 2019, 29, e01873.	3.8	19
65	The Minimum Detectable Difference (MDD) Concept for Establishing Trust in Nonsignificant Results: A Critical Review. <i>Environmental Toxicology and Chemistry</i> , 2020, 39, 2109-2123.	4.3	18
66	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.	7.1	16
67	A comparison of methods for estimating plant population size. <i>Biodiversity and Conservation</i> , 2018, 27, 2021-2028.	2.6	16
68	On the Challenge of Fitting Tree Size Distributions in Ecology. <i>PLoS ONE</i> , 2013, 8, e58036.	2.5	15
69	Bayesian inference of environmental and biotic factors determining the occurrence of the grapevine disease ‘bois noir’. <i>Ecosphere</i> , 2015, 6, 1-13.	2.2	14
70	An extended empirical saddlepoint approximation for intractable likelihoods. <i>Electronic Journal of Statistics</i> , 2018, 12, .	0.7	12
71	Bayesian calibration of a growth-dependent tree mortality model to simulate the dynamics of European temperate forests. <i>Ecological Applications</i> , 2020, 30, e02021.	3.8	12
72	The time horizon and its role in multiple species conservation planning. <i>Biological Conservation</i> , 2008, 141, 2625-2631.	4.1	11

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73	Identifying local drivers of a vector-pathogen-disease system using Bayesian modeling. <i>Basic and Applied Ecology</i> , 2017, 18, 75-85.	2.7	11
74	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.	4.3	11
75	Sequential Monte-Carlo algorithms for Bayesian model calibration – A review and method comparison. <i>Ecological Modelling</i> , 2021, 455, 109608.	2.5	10
76	Process, correlation and parameter fitting in species distribution models: a response to Kriticos & Albers. <i>Journal of Biogeography</i> , 2013, 40, 612-613.	3.0	8
77	On the Sympatric Evolution and Evolutionary Stability of Coexistence by Relative Nonlinearity of Competition. <i>PLoS ONE</i> , 2014, 9, e94454.	2.5	8
78	An R package facilitating sensitivity analysis, calibration and forward simulations with the LPJ-GUESS dynamic vegetation model. <i>Environmental Modelling and Software</i> , 2019, 111, 55-60.	4.5	7
79	The evidence contained in the P-value is context dependent. <i>Trends in Ecology and Evolution</i> , 2022, 37, 569-570.	8.7	7
80	Species and genetic diversity patterns show different responses to land use intensity in central European grasslands. <i>Diversity and Distributions</i> , 2021, 27, 392-401.	4.1	4
81	Offsetting Policies for Biodiversity Conservation. <i>Developments in Environmental Modelling</i> , 2012, , 413-430.	0.3	1
82	The NUCOMBog R package for simulating vegetation, water, carbon and nitrogen dynamics in peatlands. <i>Ecological Informatics</i> , 2017, 40, 35-39.	5.2	1
83	Calibrating an Individual-Based Movement Model to Predict Functional Connectivity for Little Owls. <i>Bulletin of the Ecological Society of America</i> , 2019, 100, e01541.	0.2	0