David I Warton

List of Publications by Year
in descending order

90 papers	17,857 citations	53794 45 h-index	46799 89 g-index
92 all docs	92 docs citations	92 times ranked	22240 citing authors

#	Article	IF	Citations
1	Bivariate lineâ€fitting methods for allometry. Biological Reviews, 2006, 81, 259-291.	10.4	1,870
2	The arcsine is asinine: the analysis of proportions in ecology. Ecology, 2011, 92, 3-10.	3.2	1,801
3	Assessing the generality of global leaf trait relationships. New Phytologist, 2005, 166, 485-496.	7.3	1,704
4	smatr 3â€“ an R package for estimation and inference about allometric lines. Methods in Ecology and Evolution, 2012, 3, 257-259.	5.2	1,244
5	mvabundâ€“ an R package for modelâ€based analysis of multivariate abundance data. Methods in Ecology and Evolution, 2012, 3, 471-474.	5.2	1,166
6	Crossâ€validation strategies for data with temporal, spatial, hierarchical, or phylogenetic structure. Ecography, 2017, 40, 913-929.	4.5	1,092
7	Distanceâ€based multivariate analyses confound location and dispersion effects. Methods in Ecology and Evolution, 2012, 3, 89-101.	5.2	905
8	Modulation of leaf economic traits and trait relationships by climate. Global Ecology and Biogeography, 2005, 14, 411-421.	5.8	669
9	Global patterns in plant height. Journal of Ecology, 2009, 97, 923-932.	4.0	611
10	So Many Variables: Joint Modeling in Community Ecology. Trends in Ecology and Evolution, 2015, 30, 766-779.	8.7	607
11	Global patterns of leaf mechanical properties. Ecology Letters, 2011, 14, 301-312.	6.4	418
12	Equivalence of MAXENT and Poisson Point Process Models for Species Distribution Modeling in Ecology. Biometrics, 2013, 69, 274-281.	1.4	369
13	Point process models for presenceâ€only analysis. Methods in Ecology and Evolution, 2015, 6, 366-379.	5.2	319
14	A comprehensive evaluation of predictive performance of 33 species distribution models at species and community levels. Ecological Monographs, 2019, 89, e01370.	5.4	290
15	Common Slope Tests for Bivariate Errors-in-Variables Models. Biometrical Journal, 2002, 44, 161-174.	1.0	265
16	Poisson point process models solve the â€œpseudo-absence problemâ€•for presence-only data in ecology. Annals of Applied Statistics, 2010, 4, .	1.1	226
17	The fourthâ€corner solution â€“ using predictive models to understand how species traits interact with the environment. Methods in Ecology and Evolution, 2014, 5, 344-352.	5.2	226
18	Model averaging in ecology: a review of Bayesian, informationâ€theoretic, and tactical approaches for predictive inference. Ecological Monographs, 2018, 88, 485-504.	5.4	209

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19	Modelâ€based approaches to unconstrained ordination. Methods in Ecology and Evolution, 2015, 6, 399-411.	5.2	195
20	Invasions: the trail behind, the path ahead, and a test of a disturbing idea. Journal of Ecology, 2012, 100, 116-127.	4.0	180
21	A novel approach to quantify and locate potential microrefugia using topoclimate, climate stability, and isolation from the matrix. Global Change Biology, 2012, 18, 1866-1879.	9.5	176
22	DO SMALL-SEEDED SPECIES HAVE HIGHER SURVIVAL THROUGH SEED PREDATION THAN LARGE-SEEDED SPECIES?. Ecology, 2003, 84, 3148-3161.	3.2	175
23	Modelling of wildlife fatality hotspots along the Snowy Mountain Highway in New South Wales, Australia. Biological Conservation, 2005, 126, 474-490.	4.1	173
24	Many zeros does not mean zero inflation: comparing the goodness-of-fit of parametric models to multivariate abundance data. Environmetrics, 2005, 16, 275-289.	1.4	171
25	Putting plant resistance traits on the map: a test of the idea that plants are better defended at lower latitudes. New Phytologist, 2011, 191, 777-788.	7.3	155
26	Model-Based Control of Observer Bias for the Analysis of Presence-Only Data in Ecology. PLoS ONE, 2013, 8, e79168.	2.5	140
27	Three points to consider when choosing a <scp>LM</scp> or <scp>GLM</scp> test for count data. Methods in Ecology and Evolution, 2016, 7, 882-890.	5.2	133
28	Model-based thinking for community ecology. Plant Ecology, 2015, 216, 669-682.	1.6	120
29	Penalized Normal Likelihood and Ridge Regularization of Correlation and Covariance Matrices. Journal of the American Statistical Association, 2008, 103, 340-349.	3.1	110
30	The Time Value of Leaf Area. American Naturalist, 2000, 155, 649-656.	2.1	103
31	Global metaâ€analysis shows that relationships of leaf mass per area with species shade tolerance depend on leaf habit and ontogeny. New Phytologist, 2007, 176, 764-774.	7.3	101
32	gllvm: Fast analysis of multivariate abundance data with generalized linear latent variable models in <scp>r</scp>. Methods in Ecology and Evolution, 2019, 10, 2173-2182.	5.2	88
33	Sprouting by semi-arid plants: testing a dichotomy and predictive traits. Oikos, 2004, 107, 72-89.	2.7	84
34	To mix or not to mix: comparing the predictive performance of mixture models vs. separate species distribution models. Ecology, 2013, 94, 1913-1919.	3.2	80
35	Regularized Sandwich Estimators for Analysis of High-Dimensional Data Using Generalized Estimating Equations. Biometrics, 2011, 67, 116-123.	1.4	78
36	The PIT-trapâ€”A â€œmodel-freeâ€•bootstrap procedure for inference about regression models with discrete, multivariate responses. PLoS ONE, 2017, 12, e0181790.	2.5	78

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37	<scp>CATS</scp> regression â€“ a modelâ€based approach to studying traitâ€based community assembly. Methods in Ecology and Evolution, 2015, 6, 389-398.	5.2	75
38	Does morphology predict trophic position and habitat use of ant species and assemblages?. Oecologia, 2015, 177, 519-531.	2.0	70
39	Tropical plants do not have narrower temperature tolerances, but are more at risk from warming because they are close to their upper thermal limits. Global Ecology and Biogeography, 2020, 29, 1387-1398.	5.8	68
40	A climate of uncertainty: accounting for error in climate variables for species distribution models. Methods in Ecology and Evolution, 2015, 6, 412-423.	5.2	66
41	Topoclimate versus macroclimate: how does climate mapping methodology affect species distribution models and climate change projections?. Diversity and Distributions, 2014, 20, 952-963.	4.1	62
42	Seed size and survival in the soil in arid Australia. Austral Ecology, 2003, 28, 575-585.	1.5	58
43	Untangling direct species associations from indirect mediator species effects with graphical models. Methods in Ecology and Evolution, 2019, 10, 1571-1583.	5.2	57
44	Finite Mixture of Regression Modeling for High-Dimensional Count and Biomass Data in Ecology. Journal of Agricultural, Biological, and Environmental Statistics, 2013, 18, 357-375.	1.4	52
45	Variational Approximations for Generalized Linear Latent Variable Models. Journal of Computational and Graphical Statistics, 2017, 26, 35-43.	1.7	51
46	Tuning Parameter Selection for the Adaptive Lasso Using ERIC. Journal of the American Statistical Association, 2015, 110, 262-269.	3.1	50
47	Advancing our thinking in presenceâ€only and usedâ€available analysis. Journal of Animal Ecology, 2013, 82, 1125-1134.	2.8	49
48	A MANOVA STATISTIC IS JUST AS POWERFUL AS DISTANCE-BASED STATISTICS, FOR MULTIVARIATE ABUNDANCES. Ecology, 2004, 85, 858-874.	3.2	48
49	Generalized Linear Latent Variable Models for Multivariate Count and Biomass Data in Ecology. Journal of Agricultural, Biological, and Environmental Statistics, 2017, 22, 498-522.	1.4	47
50	Communityâ€level vs speciesâ€specific approaches to model selection. Ecography, 2013, 36, 1291-1298.	4.5	46
51	Graphical diagnostics for occupancy models with imperfect detection. Methods in Ecology and Evolution, 2017, 8, 408-419.	5.2	46
52	Efficient estimation of generalized linear latent variable models. PLoS ONE, 2019, 14, e0216129.	2.5	45
53	Evidence at hand: Diversity, functional implications, and locomotor prediction in intrinsic hand proportions of diprotodontian marsupials. Journal of Morphology, 2006, 267, 1469-1485.	1.2	43
54	Why You Cannot Transform Your Way out of Trouble for Small Counts. Biometrics, 2018, 74, 362-368.	1.4	38

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55	Raw data graphing: an informative but underâ€utilized tool for the analysis of multivariate abundances. Austral Ecology, 2008, 33, 290-300.	1.5	34
56	Robust estimation and inference for bivariate line-fitting in allometry. Biometrical Journal, 2011, 53, 652-672.	1.0	33
57	The central role of meanâ€variance relationships in the analysis of multivariate abundance data: a response to Roberts (2017). Methods in Ecology and Evolution, 2017, 8, 1408-1414.	5.2	33
58	Plant traits of propagule banks and standing vegetation reveal flooding alleviates impacts of agriculture on wetland restoration. Journal of Applied Ecology, 2017, 54, 1907-1918.	4.0	30
59	Are Introduced Species Better Dispersers Than Native Species? A Global Comparative Study of Seed Dispersal Distance. PLoS ONE, 2013, 8, e68541.	2.5	27
60	Does a latitudinal gradient in seedling survival favour larger seeds in the tropics?. Ecology Letters, 2004, 7, 911-914.	6.4	24
61	Extending Joint Models in Community Ecology: A Response to Beissinger et al .. Trends in Ecology and Evolution, 2016, 31, 737-738.	8.7	24
62	Robust tests for one or more allometric lines. Journal of Theoretical Biology, 2013, 333, 38-46.	1.7	23
63	A general algorithm for covariance modeling of discrete data. Journal of Multivariate Analysis, 2018, 165, 86-100.	1.0	22
64	Order Selection and Sparsity in Latent Variable Models via the Ordered Factor LASSO. Biometrics, 2018, 74, 1311-1319.	1.4	22
65	Multi-species distribution modeling using penalized mixture of regressions. Annals of Applied Statistics, 2015, 9, .	1.1	20
66	A modelâ€based approach to studying changes in compositional heterogeneity. Methods in Ecology and Evolution, 2014, 5, 156-164.	5.2	19
67	The fungicides Terrazole and Terraclor and the nematicide Fenamiphos have little effect on root colonisation by Glomus mosseae and growth of cotton seedlings. Mycorrhiza, 1997, 7, 155-159.	2.8	18
68	Site-to-site variation in the demography of a fire-affected perennial, Acacia suaveolens, at Ku-ring-gai Chase National Park, New South Wales, Australia. Austral Ecology, 2003, 28, 38-47.	1.5	17
69	Fast forward selection for generalized estimating equations with a large number of predictor variables. Biometrics, 2014, 70, 110-120.	1.4	16
70	Order selection in finite mixture models: complete or observed likelihood information criteria?. Biometrika, 2015, 102, 724-730.	2.4	15
71	Modelâ€based assessment of ecological community classifications. Journal of Vegetation Science, 2016, 27, 704-715.	2.2	15
72	Frequent inundation helps counteract land use impacts on wetland propagule banks. Applied Vegetation Science, 2017, 20, 459-467.	1.9	15

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73	Thirty years of change in a benthic macroinvertebrate community of southwestern Lake Ontario after invasion by four Ponto-Caspian species. Freshwater Science, 2017, 36, 90-102.	1.8	14
74	Responses of foliageâ€living spider assemblage composition and traits to a climatic gradient in <scp>T</scp>hemeda grasslands. Austral Ecology, 2015, 40, 225-237.	1.5	13
75	A Generalized Estimating Equation Approach to Multivariate Adaptive Regression Splines. Journal of Computational and Graphical Statistics, 2018, 27, 245-253.	1.7	13
76	A metacommunityâ€scale comparison of speciesâ€abundance distribution models for plant communities of eastern Australia. Ecography, 2007, 30, 449-458.	4.5	12
77	Selecting the model for multiple imputation of missing data: Just use an IC!. Statistics in Medicine, 2021, 40, 2467-2497.	1.6	12
78	Analyzing environmentalâ€trait interactions in ecological communities with fourthâ€corner latent variable models. Environmetrics, 2021, 32, e2683.	1.4	11
79	Fast modelâ€based ordination with copulas. Methods in Ecology and Evolution, 2022, 13, 194-202.	5.2	11
80	Modeling recreational fishing intensity in a complex urbanised estuary. Journal of Environmental Management, 2021, 279, 111529.	7.8	10
81	Correction note: Poisson point process models solve the â€œpseudo-absence problemâ€• for presence-only data in ecology. Annals of Applied Statistics, 2010, 4, .	1.1	8
82	Robustness to Failure of Assumptions of Tests for a Common Slope Amongst Several Allometric Lines â€“ A Simulation Study. Biometrical Journal, 2007, 49, 286-299.	1.0	7
83	Compositional analysis of overdispersed counts using generalized estimating equations. Environmental and Ecological Statistics, 2011, 18, 427-446.	3.5	7
84	New opportunities at the interface between ecology and statistics. Methods in Ecology and Evolution, 2015, 6, 363-365.	5.2	7
85	Effect of contact load upon attrition-corrosion of human dental enamel. Wear, 2018, 414-415, 101-108.	3.1	7
86	Which Wald statistic? Choosing a parameterization of the Wald statistic to maximize power in k-sample generalized estimating equations. Journal of Statistical Planning and Inference, 2008, 138, 3269-3282.	0.6	4
87	What is the effective sample size of a spatial point process?. Australian and New Zealand Journal of Statistics, 2021, 63, 144-158.	0.9	4
88	Technical advances at the interface between ecology and statistics: improving the biodiversity knowledge generation workflow. Methods in Ecology and Evolution, 2017, 8, 396-397.	5.2	3
89	How Many Words Do You Know? An Integrated Assessment Task for Introductory Statistics Students. Journal of Statistics Education, 2007, 15, .	1.4	1
90	fitzRoy - An R Package to Encourage Reproducible Sports Analysis. R Journal, 2020, 12, 82.	1.8	1