Brendan A Wintle

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9,411 149 47 95 h-index g-index citations papers 11,285 6.5 6.24 155 avg, IF L-index ext. papers ext. citations

#	Paper	IF	Citations
149	Predicting species distributions for conservation decisions. <i>Ecology Letters</i> , 2013 , 16, 1424-35	10	985
148	Zero tolerance ecology: improving ecological inference by modelling the source of zero observations. <i>Ecology Letters</i> , 2005 , 8, 1235-46	10	590
147	Cross-validation strategies for data with temporal, spatial, hierarchical, or phylogenetic structure. <i>Ecography</i> , 2017 , 40, 913-929	6.5	566
146	Is my species distribution model fit for purpose? Matching data and models to applications. <i>Global Ecology and Biogeography</i> , 2015 , 24, 276-292	6.1	460
145	Prioritizing multiple-use landscapes for conservation: methods for large multi-species planning problems. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2005 , 272, 1885-91	4.4	367
144	Climate change, connectivity and conservation decision making: back to basics. <i>Journal of Applied Ecology</i> , 2009 , 46, 964-969	5.8	310
143	Correlative and mechanistic models of species distribution provide congruent forecasts under climate change. <i>Conservation Letters</i> , 2010 , 3, 203-213	6.9	307
142	Fauna habitat modelling and mapping: A review and case study in the Lower Hunter Central Coast region of NSW. <i>Austral Ecology</i> , 2005 , 30, 719-738	1.5	209
141	Habitat area, quality and connectivity: striking the balance for efficient conservation. <i>Journal of Applied Ecology</i> , 2011 , 48, 148-152	5.8	198
140	The Use of Bayesian Model Averaging to Better Represent Uncertainty in Ecological Models. <i>Conservation Biology</i> , 2003 , 17, 1579-1590	6	192
139	Imperfect detection impacts the performance of species distribution models. <i>Global Ecology and Biogeography</i> , 2014 , 23, 504-515	6.1	176
138	Global synthesis of conservation studies reveals the importance of small habitat patches for biodiversity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 909-914	11.5	172
137	A new method for dealing with residual spatial autocorrelation in species distribution models. <i>Ecography</i> , 2012 , 35, 879-888	6.5	166
136	Plant extinction risk under climate change: are forecast range shifts alone a good indicator of species vulnerability to global warming?. <i>Global Change Biology</i> , 2012 , 18, 1357-1371	11.4	155
135	Deep-sea diversity patterns are shaped by energy availability. <i>Nature</i> , 2016 , 533, 393-6	50.4	139
134	Counting the books while the library burns: why conservation monitoring programs need a plan for action. <i>Frontiers in Ecology and the Environment</i> , 2013 , 11, 549-555	5.5	129
133	When to stop managing or surveying cryptic threatened species. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 13936-40	11.5	127

(2010-2005)

132	ESTIMATING AND DEALING WITH DETECTABILITY IN OCCUPANCY SURVEYS FOR FOREST OWLS AND ARBOREAL MARSUPIALS. <i>Journal of Wildlife Management</i> , 2005 , 69, 905-917	1.9	126
131	Taming a Wicked Problem: Resolving Controversies in Biodiversity Offsetting. <i>BioScience</i> , 2016 , 66, 489)- 4 98	118
130	Ignoring imperfect detection in biological surveys is dangerous: a response to 'fitting and interpreting occupancy models'. <i>PLoS ONE</i> , 2014 , 9, e99571	3.7	115
129	Allocating monitoring effort in the face of unknown unknowns. <i>Ecology Letters</i> , 2010 , 13, 1325-37	10	113
128	Some practical suggestions for improving engagement between researchers and policy-makers in natural resource management. <i>Ecological Management and Restoration</i> , 2008 , 9, 182-186	1.4	111
127	The biodiversity bank cannot be a lending bank. <i>Conservation Letters</i> , 2010 , 3, 151-158	6.9	109
126	PRECISION AND BIAS OF METHODS FOR ESTIMATING POINT SURVEY DETECTION PROBABILITIES 2004 , 14, 703-712		108
125	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
124	When have we looked hard enough? A novel method for setting minimum survey effort protocols for flora surveys. <i>Austral Ecology</i> , 2008 , 33, 986-998	1.5	95
123	Integrating biological and social values when prioritizing places for biodiversity conservation. <i>Conservation Biology</i> , 2014 , 28, 992-1003	6	83
122	Using carbon investment to grow the biodiversity bank. Conservation Biology, 2008, 22, 510-3	6	82
121	Modeling species-habitat relationships with spatially autocorrelated observation data 2006 , 16, 1945-5	8	81
120	Planning for robust reserve networks using uncertainty analysis. <i>Ecological Modelling</i> , 2006 , 199, 115-12	24,	80
119	Strategic foresight: how planning for the unpredictable can improve environmental decision-making. <i>Trends in Ecology and Evolution</i> , 2014 , 29, 531-41	10.9	79
118	Uncertainty analysis favours selection of spatially aggregated reserve networks. <i>Biological Conservation</i> , 2006 , 129, 427-434	6.2	79
117	Ecological Economic optimization of biodiversity conservation under climate change. <i>Nature Climate Change</i> , 2011 , 1, 355-359	21.4	77
116	Hotspots of plant invasion predicted by propagule pressure and ecosystem characteristics. <i>Diversity and Distributions</i> , 2011 , 17, 1099-1110	5	77
115	Active adaptive conservation of threatened species in the face of uncertainty 2010 , 20, 1476-89		75

114	Utility of Dynamic-Landscape Metapopulation Models for Sustainable Forest Management. <i>Conservation Biology</i> , 2005 , 19, 1930-1943	6	74
113	Uncertainty analysis for regional-scale reserve selection. <i>Conservation Biology</i> , 2006 , 20, 1688-97	6	73
112	Forecasting species range dynamics with process-explicit models: matching methods to applications. <i>Ecology Letters</i> , 2019 , 22, 1940-1956	10	72
111	State-and-transition modelling for Adaptive Management of native woodlands. <i>Biological Conservation</i> , 2011 , 144, 1224-1236	6.2	70
110	Conservation planning with dynamic threats: The role of spatial design and priority setting for species[persistence. <i>Biological Conservation</i> , 2010 , 143, 756-767	6.2	70
109	Havens for threatened Australian mammals: the contributions of fenced areas and offshore islands to the protection of mammal species susceptible to introduced predators. <i>Wildlife Research</i> , 2018 , 45, 627	1.8	68
108	The boundary-quality penalty: a quantitative method for approximating species responses to fragmentation in reserve selection. <i>Conservation Biology</i> , 2007 , 21, 355-64	6	63
107	Hydroperiod is the main driver of the spatial pattern of dominance in mangrove communities. <i>Global Ecology and Biogeography</i> , 2013 , 22, 806-817	6.1	62
106	Unpacking the mechanisms captured by a correlative species distribution model to improve predictions of climate refugia. <i>Global Change Biology</i> , 2016 , 22, 2425-39	11.4	62
105	Evaluating 318 continental-scale species distribution models over a 60-year prediction horizon: what factors influence the reliability of predictions?. <i>Global Ecology and Biogeography</i> , 2017 , 26, 371-38	4 ^{6.1}	57
104	Designing occupancy surveys and interpreting non-detection when observations are imperfect. <i>Diversity and Distributions</i> , 2012 , 18, 417-424	5	57
103	Diets of sympatric native and introduced carnivores in the Barrington Tops, eastern Australia. <i>Austral Ecology</i> , 2011 , 36, 290-296	1.5	50
102	A protocol for better design, application, and communication of population viability analyses. <i>Conservation Biology</i> , 2013 , 27, 644-56	6	47
101	Comment on Methods to account for spatial autocorrelation in the analysis of species distributional data: a review (Ecography, 2009, 32, 374-378)	6.5	47
100	After the Megafires: What Next for Australian Wildlife?. Trends in Ecology and Evolution, 2020, 35, 753-7	'57 5.9	46
99	Towards strategic offsetting of biodiversity loss using spatial prioritization concepts and tools: A case study on mining impacts in Australia. <i>Biological Conservation</i> , 2015 , 192, 513-521	6.2	45
98	Transparent planning for biodiversity and development in the urban fringe. <i>Landscape and Urban Planning</i> , 2012 , 108, 140-149	7.7	45
97	The threats to Australia imperilled species and implications for a national conservation response. <i>Pacific Conservation Biology</i> , 2019 , 25, 231	1.2	45

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96	Scenarios and Models to Support Global Conservation Targets. <i>Trends in Ecology and Evolution</i> , 2019 , 34, 57-68	10.9	45	
95	Valid auto-models for spatially autocorrelated occupancy and abundance data. <i>Methods in Ecology and Evolution</i> , 2015 , 6, 1137-1149	7.7	44	
94	A general model of detectability using species traits. <i>Methods in Ecology and Evolution</i> , 2013 , 4, 45-52	7.7	42	
93	Adaptive risk management for certifiably sustainable forestry. <i>Forest Ecology and Management</i> , 2008 , 256, 1311-1319	3.9	39	
92	Alien invaders and reptile traders: what drives the live animal trade in South Africa?. <i>Animal Conservation</i> , 2010 , 13, 24-32	3.2	36	
91	Urban bat communities are affected by wetland size, quality, and pollution levels. <i>Ecology and Evolution</i> , 2016 , 6, 4761-74	2.8	36	
90	How to build an efficient conservation fence. Conservation Biology, 2010, 24, 182-8	6	35	
89	Incorporating spatial autocorrelation into species distribution models alters forecasts of climate-mediated range shifts. <i>Global Change Biology</i> , 2014 , 20, 2566-79	11.4	34	
88	Dealing with Cumulative Biodiversity Impacts in Strategic Environmental Assessment: A New Frontier for Conservation Planning. <i>Conservation Letters</i> , 2017 , 10, 195-204	6.9	34	
87	Functional responses of insectivorous bats to increasing housing density support thand-sparing rather than than that sharing the growth strategies. <i>Journal of Applied Ecology</i> , 2016 , 53, 191-201	5.8	33	
86	Inferring extinctions from sighting records of variable reliability. <i>Journal of Applied Ecology</i> , 2014 , 51, 251-258	5.8	30	
85	Environment. "True" conservation progress. <i>Science</i> , 2009 , 323, 43-4	33.3	30	
84	Ask not what nature can do for you: A critique of ecosystem services as a communication strategy. <i>Biological Conservation</i> , 2018 , 224, 71-74	6.2	30	
83	Spatial conservation priorities are highly sensitive to choice of biodiversity surrogates and species distribution model type. <i>Ecography</i> , 2015 , 38, 1101-1111	6.5	29	
82	Linking modelling, monitoring and management: an integrated approach to controlling overabundant wildlife. <i>Journal of Applied Ecology</i> , 2010 , 47, 1169-1178	5.8	29	
81	Modelling species responses to extreme weather provides new insights into constraints on range and likely climate change impacts for Australian mammals. <i>Ecography</i> , 2018 , 41, 308-320	6.5	28	
8o	Integrating modelling of biodiversity composition and ecosystem function. <i>Oikos</i> , 2016 , 125, 10-19	4	28	
79	Modelling the benefits of habitat restoration in socio-ecological systems. <i>Biological Conservation</i> , 2014 , 169, 60-67	6.2	27	

78	Spending to save: What will it cost to halt Australia's extinction crisis?. <i>Conservation Letters</i> , 2019 , 12, e12682	6.9	26
77	Incorporating detectability of threatened species into environmental impact assessment. <i>Conservation Biology</i> , 2015 , 29, 216-25	6	24
76	Uncertain sightings and the extinction of the Ivory-billed Woodpecker. <i>Conservation Biology</i> , 2012 , 26, 180-4	6	24
75	Improving the Design of a Conservation Reserve for a Critically Endangered Species. <i>PLoS ONE</i> , 2017 , 12, e0169629	3.7	24
74	Reptiles in restored agricultural landscapes: the value of linear strips, patches and habitat condition. <i>Animal Conservation</i> , 2014 , 17, 544-554	3.2	23
73	Modelling human impacts on the Tasmanian wedge-tailed eagle (Aquila audax fleayi). <i>Biological Conservation</i> , 2009 , 142, 2438-2448	6.2	23
72	Reconciling uncertain costs and benefits in Bayes nets for invasive species management. <i>Risk Analysis</i> , 2010 , 30, 277-84	3.9	23
71	What are we measuring? A review of metrics used to describe biodiversity in offsets exchanges. <i>Biological Conservation</i> , 2020 , 241, 108250	6.2	23
70	Modelling both dominance and species distribution provides a more complete picture of changes to mangrove ecosystems under climate change. <i>Global Change Biology</i> , 2015 , 21, 3005-20	11.4	22
69	Quantifying variance components in ecological models based on expert opinion. <i>Journal of Applied Ecology</i> , 2011 , 48, 736-745	5.8	22
68	The sensitivity of population viability analysis to uncertainty about habitat requirements: implications for the management of the endangered southern brown bandicoot. <i>Conservation Biology</i> , 2008 , 22, 1045-54	6	22
67	Linking cost efficiency evaluation with population viability analysis to prioritize wetland bird conservation actions. <i>Biological Conservation</i> , 2011 , 144, 2354-2361	6.2	21
66	Use of confidence intervals to demonstrate performance against forest management standards. <i>Forest Ecology and Management</i> , 2007 , 247, 237-245	3.9	21
65	Revealing beliefs: using ensemble ecosystem modelling to extrapolate expert beliefs to novel ecological scenarios. <i>Methods in Ecology and Evolution</i> , 2017 , 8, 1012-1021	7.7	20
64	A global synthesis of survival estimates for microbats. <i>Biology Letters</i> , 2015 , 11,	3.6	19
63	Analysis of Trade-Offs Between Biodiversity, Carbon Farming and Agricultural Development in Northern Australia Reveals the Benefits of Strategic Planning. <i>Conservation Letters</i> , 2017 , 10, 94-104	6.9	19
62	Australia's mammal fauna requires a strategic and enhanced network of predator-free havens. <i>Nature Ecology and Evolution</i> , 2018 , 2, 410-411	12.3	18
61	Egg-laying and rainfall synchrony in an endangered bird species: Implications for conservation in a changing climate. <i>Biological Conservation</i> , 2013 , 161, 1-9	6.2	16

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60	Minimizing the cost of keeping options open for conservation in a changing climate. <i>Conservation Biology</i> , 2014 , 28, 646-53	6	15
59	Using strategic foresight to assess conservation opportunity. <i>Conservation Biology</i> , 2014 , 28, 1474-83	6	15
58	Extinct or still out there? Disentangling influences on extinction and rediscovery helps to clarify the fate of species on the edge. <i>Global Change Biology</i> , 2017 , 23, 621-634	11.4	14
57	Metrics of progress in the understanding and management of threats to Australian birds. <i>Conservation Biology</i> , 2019 , 33, 456-468	6	14
56	Minimizing species extinctions through strategic planning for conservation fencing. <i>Conservation Biology</i> , 2017 , 31, 1029-1038	6	13
55	A Call for International Leadership and Coordination to Realize the Potential of Conservation Technology. <i>BioScience</i> , 2019 , 69, 823-832	5.7	13
54	Species partitioning in a temperate mountain chain: Segregation by habitat vs. interspecific competition. <i>Ecology and Evolution</i> , 2017 , 7, 2685-2696	2.8	12
53	A checklist of attributes for effective monitoring of threatened species and threatened ecosystems. <i>Journal of Environmental Management</i> , 2020 , 262, 110312	7.9	12
52	Incorporating landscape stochasticity into population viability analysis 2007, 17, 317-22		12
51	Occupancy and detectability modelling of vertebrates in northern Australia using multiple sampling methods. <i>PLoS ONE</i> , 2018 , 13, e0203304	3.7	12
50	Modelling the spatial variation of vital rates: An evaluation of the strengths and weaknesses of correlative species distribution models. <i>Diversity and Distributions</i> , 2017 , 23, 841-853	5	11
49	An info-gap approach to power and sample size calculations. <i>Environmetrics</i> , 2007 , 18, 189-203	1.3	11
48	Towards Adaptive Management of Native Vegetation in Regional Landscapes 2008, 159-182		11
47	Including indigenous knowledge in species distribution modeling for increased ecological insights. <i>Conservation Biology</i> , 2021 , 35, 587-597	6	11
46	Characterising uncertainty in generalised dissimilarity models. <i>Methods in Ecology and Evolution</i> , 2017 , 8, 985-995	7.7	10
45	steps: Software for spatially and temporally explicit population simulations. <i>Methods in Ecology and Evolution</i> , 2020 , 11, 596-603	7.7	10
44	Cost-effective conservation of an endangered frog under uncertainty. <i>Conservation Biology</i> , 2016 , 30, 350-61	6	10
43	Climate and Fire Scenario Uncertainty Dominate the Evaluation of Options for Conserving the Great Desert Skink. <i>Conservation Letters</i> , 2016 , 9, 181-190	6.9	10

42	Open access solutions for biodiversity journals: Do not replace one problem with another. <i>Diversity and Distributions</i> , 2019 , 25, 5-8	5	10
41	Integrated models to support multiobjective ecological restoration decisions. <i>Conservation Biology</i> , 2017 , 31, 1418-1427	6	9
40	Incorporating uncertainty of management costs in sensitivity analyses of matrix population models. <i>Conservation Biology</i> , 2013 , 27, 134-44	6	9
39	Future forests and indicator-species population models. Forestry Chronicle, 2007, 83, 36-40	1	9
38	Using decision science to evaluate global biodiversity indices. <i>Conservation Biology</i> , 2021 , 35, 492-501	6	9
37	Identifying technology solutions to bring conservation into the innovation era. <i>Frontiers in Ecology and the Environment</i> , 2019 , 17, 591-598	5.5	8
36	A stitch in time E ynergistic impacts to platypus metapopulation extinction risk. <i>Biological Conservation</i> , 2020 , 242, 108399	6.2	8
35	Continuous predictors of species distributions support categorically stronger inference than ordinal and nominal classes: an example with urban bats. <i>Landscape Ecology</i> , 2014 , 29, 1237-1248	4.3	8
34	Monitoring, imperfect detection, and risk optimization of a Tasmanian devil insurance population. <i>Conservation Biology</i> , 2018 , 32, 267-275	6	8
33	Spatially explicit power analysis for detecting occupancy trends for multiple species. <i>Ecological Applications</i> , 2019 , 29, e01950	4.9	7
32	Efficiently locating conservation boundaries: Searching for the Tasmanian devil facial tumour disease front. <i>Biological Conservation</i> , 2009 , 142, 1333-1339	6.2	7
31	Threatened species impact assessments: survey effort requirements based on criteria for cumulative impacts. <i>Diversity and Distributions</i> , 2015 , 21, 620-630	5	6
30	Getting our Act together to improve Indigenous leadership and recognition in biodiversity management. <i>Ecological Management and Restoration</i> , 2022 , 23, 33-42	1.4	6
29	Systematic planning can rapidly close the protection gap in Australian mammal havens. <i>Conservation Letters</i> , 2019 , 12, e12611	6.9	5
28	FoxNet: An individual-based model framework to support management of an invasive predator, the red fox. <i>Journal of Applied Ecology</i> , 2019 , 56, 1460-1470	5.8	5
27	Unexpectedly high densities of feral cats in a rugged temperate forest. <i>Biological Conservation</i> , 2019 , 239, 108287	6.2	5
26	The use of dynamic landscape metapopulation models for forest management: a case study of the red-backed salamander. <i>Canadian Journal of Forest Research</i> , 2012 , 42, 1091-1106	1.9	5
25	The scaling of population persistence with carrying capacity does not asymptote in populations of a fish experiencing extreme climate variability. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2017 , 284,	4.4	4

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24	Impacts of climate change and urban development on the spotted marsh frog (Limnodynastes tasmaniensis). <i>Austral Ecology</i> , 2013 , 38, 11-22	1.5	4	
23	Quantifying the impact of vegetation-based metrics on species persistence when choosing offsets for habitat destruction. <i>Conservation Biology</i> , 2021 , 35, 567-577	6	4	
22	Impact Indicators for Biodiversity Conservation Research: Measuring Influence within and beyond Academia. <i>BioScience</i> , 2021 , 71, 383-395	5.7	4	
21	The minimum land area requiring conservation attention to safeguard biodiversity. <i>Science</i> , 2022 , 376, 1094-1101	33.3	4	
20	Adaptive management informs conservation and monitoring of Australia's threatened malleefowl. <i>Biological Conservation</i> , 2019 , 233, 31-40	6.2	3	
19	Choosing ecosystem service investments that are robust to uncertainty across multiple parameters 2012 , 22, 697-704		3	
18	Dynamic Landscape Metapopulation Models and Sustainable Forest Management 2009 , 473-499		3	
17	Developing a two-way learning monitoring program for Mankarr (Greater Bilby) in the Western Desert, Western Australia. <i>Ecological Management and Restoration</i> , 2022 , 23, 129-138	1.4	3	
16	Identifying uncertainties in scenarios and models of socio-ecological systems in support of decision-making. <i>One Earth</i> , 2021 , 4, 967-985	8.1	3	
15	A threatened species index for Australian birds. Conservation Science and Practice, 2021, 3, e322	2.2	3	
14	Predators, fire or resources: What drives the distribution of herbivores in fragmented mesic forests?. <i>Austral Ecology</i> , 2020 , 45, 329-339	1.5	2	
13	Corrigendum to: The threats to Australia imperilled species and implications for a national conservation response. <i>Pacific Conservation Biology</i> , 2019 , 25, 328	1.2	2	
12	A fractional land use change model for ecological applications. <i>Environmental Modelling and Software</i> , 2022 , 147, 105258	5.2	2	
11	Design considerations for rapid biodiversity reconnaissance surveys and long-term monitoring to assess the impact of wildfire. <i>Diversity and Distributions</i> ,	5	2	
10	Assessing biophysical and socio-economic impacts of climate change on regional avian biodiversity. <i>Scientific Reports</i> , 2021 , 11, 3304	4.9	2	
9	Equilibrium Modeling for Environmental Science: Exploring the Nexus of Economic Systems and Environmental Change. <i>Earths</i> Future, 2021 , 9, e2020EF001923	7.9	2	
8	The effect of substrate compaction on plant water use and the implications for phytocap design specifications. <i>Ecological Engineering</i> , 2019 , 127, 195-203	3.9	1	
7	Collaborative conservation planning: Quantifying the contribution of expert engagement to identify spatial conservation priorities. <i>Conservation Letters</i> , 2019 , 12, e12673	6.9	1	

6	Integrating species metrics into biodiversity offsetting calculations to improve long-term persistence. <i>Journal of Applied Ecology</i> ,	5.8	1
5	Factors influencing the residency of bettongs using one-way gates to exit a fenced reserve. <i>Austral Ecology</i> , 2020 , 45, 858	1.5	1
4	Recognizing culturally significant species and Indigenous-led management is key to meeting international biodiversity obligations. <i>Conservation Letters</i> ,	6.9	1
3	Pathways to strategic communication for biodiversity conservation: Response to Hearing ourselves (and acting in consequence): A commentary on Bekessy et al. from a bird-handling environmental education perspective <i>Biological Conservation</i> , 2019 , 233, 330-331	6.2	0
2	Measuring impacts on species with models and metrics of varying ecological and computational complexity. <i>Conservation Biology</i> , 2020 , 34, 1512-1524	6	
1	A gap analysis of reconnaissance surveys assessing the impact of the 2019 2 0 wildfires on vertebrates in Australia. <i>Biological Conservation</i> , 2022 , 270, 109573	6.2	