

Brendan A Wintle

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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

#	Paper	IF	Citations
149	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
148	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
147	A fractional land use change model for ecological applications. <i>Environmental Modelling and Software</i> , 2022 , 147, 105258	5.2	2
146	A gap analysis of reconnaissance surveys assessing the impact of the 2019-20 wildfires on vertebrates in Australia. <i>Biological Conservation</i> , 2022 , 270, 109573	6.2	
145	The minimum land area requiring conservation attention to safeguard biodiversity. <i>Science</i> , 2022 , 376, 1094-1101	33.3	4
144	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
143	Using decision science to evaluate global biodiversity indices. <i>Conservation Biology</i> , 2021 , 35, 492-501	6	9
142	Including indigenous knowledge in species distribution modeling for increased ecological insights. <i>Conservation Biology</i> , 2021 , 35, 587-597	6	11
141	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
140	A threatened species index for Australian birds. <i>Conservation Science and Practice</i> , 2021 , 3, e322	2.2	3
139	Impact Indicators for Biodiversity Conservation Research: Measuring Influence within and beyond Academia. <i>BioScience</i> , 2021 , 71, 383-395	5.7	4
138	Assessing biophysical and socio-economic impacts of climate change on regional avian biodiversity. <i>Scientific Reports</i> , 2021 , 11, 3304	4.9	2
137	Equilibrium Modeling for Environmental Science: Exploring the Nexus of Economic Systems and Environmental Change. <i>Earth's Future</i> , 2021 , 9, e2020EF001923	7.9	2
136	Measuring impacts on species with models and metrics of varying ecological and computational complexity. <i>Conservation Biology</i> , 2020 , 34, 1512-1524	6	
135	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
134	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
133	A stitch in time [Synergistic impacts to platypus metapopulation extinction risk. <i>Biological Conservation</i> , 2020 , 242, 108399	6.2	8

132	steps: Software for spatially and temporally explicit population simulations. <i>Methods in Ecology and Evolution</i> , 2020 , 11, 596-603	7.7	10
131	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
130	After the Megafires: What Next for Australian Wildlife?. <i>Trends in Ecology and Evolution</i> , 2020 , 35, 753-757	5.9	46
129	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
128	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
127	A Call for International Leadership and Coordination to Realize the Potential of Conservation Technology. <i>BioScience</i> , 2019 , 69, 823-832	5.7	13
126	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
125	Systematic planning can rapidly close the protection gap in Australian mammal havens. <i>Conservation Letters</i> , 2019 , 12, e12611	6.9	5
124	Spatially explicit power analysis for detecting occupancy trends for multiple species. <i>Ecological Applications</i> , 2019 , 29, e01950	4.9	7
123	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
122	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
121	Adaptive management informs conservation and monitoring of Australia's threatened malleefowl. <i>Biological Conservation</i> , 2019 , 233, 31-40	6.2	3
120	Forecasting species range dynamics with process-explicit models: matching methods to applications. <i>Ecology Letters</i> , 2019 , 22, 1940-1956	10	72
119	Corrigendum to: The threats to Australia's imperilled species and implications for a national conservation response. <i>Pacific Conservation Biology</i> , 2019 , 25, 328	1.2	2
118	Unexpectedly high densities of feral cats in a rugged temperate forest. <i>Biological Conservation</i> , 2019 , 239, 108287	6.2	5
117	Spending to save: What will it cost to halt Australia's extinction crisis?. <i>Conservation Letters</i> , 2019 , 12, e12682	6.9	26
116	Collaborative conservation planning: Quantifying the contribution of expert engagement to identify spatial conservation priorities. <i>Conservation Letters</i> , 2019 , 12, e12673	6.9	1
115	Metrics of progress in the understanding and management of threats to Australian birds. <i>Conservation Biology</i> , 2019 , 33, 456-468	6	14

114	Open access solutions for biodiversity journals: Do not replace one problem with another. <i>Diversity and Distributions</i> , 2019 , 25, 5-8	5	10
113	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
112	The threats to Australia's imperilled species and implications for a national conservation response. <i>Pacific Conservation Biology</i> , 2019 , 25, 231	1.2	45
111	Scenarios and Models to Support Global Conservation Targets. <i>Trends in Ecology and Evolution</i> , 2019 , 34, 57-68	10.9	45
110	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
109	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
108	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
107	Monitoring, imperfect detection, and risk optimization of a Tasmanian devil insurance population. <i>Conservation Biology</i> , 2018 , 32, 267-275	6	8
106	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
105	Occupancy and detectability modelling of vertebrates in northern Australia using multiple sampling methods. <i>PLoS ONE</i> , 2018 , 13, e0203304	3.7	12
104	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
103	Minimizing species extinctions through strategic planning for conservation fencing. <i>Conservation Biology</i> , 2017 , 31, 1029-1038	6	13
102	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
101	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
100	Integrated models to support multiobjective ecological restoration decisions. <i>Conservation Biology</i> , 2017 , 31, 1418-1427	6	9
99	Characterising uncertainty in generalised dissimilarity models. <i>Methods in Ecology and Evolution</i> , 2017 , 8, 985-995	7.7	10
98	Cross-validation strategies for data with temporal, spatial, hierarchical, or phylogenetic structure. <i>Ecography</i> , 2017 , 40, 913-929	6.5	566
97	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

96	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
95	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
94	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
93	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
92	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, 371-384	6.1	57
91	Improving the Design of a Conservation Reserve for a Critically Endangered Species. <i>PLoS ONE</i> , 2017 , 12, e0169629	3.7	24
90	Functional responses of insectivorous bats to increasing housing density support land-sparing rather than land-sharing urban growth strategies. <i>Journal of Applied Ecology</i> , 2016 , 53, 191-201	5.8	33
89	Urban bat communities are affected by wetland size, quality, and pollution levels. <i>Ecology and Evolution</i> , 2016 , 6, 4761-74	2.8	36
88	Cost-effective conservation of an endangered frog under uncertainty. <i>Conservation Biology</i> , 2016 , 30, 350-61	6	10
87	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
86	Taming a Wicked Problem: Resolving Controversies in Biodiversity Offsetting. <i>BioScience</i> , 2016 , 66, 489-498	4.98	118
85	Deep-sea diversity patterns are shaped by energy availability. <i>Nature</i> , 2016 , 533, 393-6	50.4	139
84	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
83	Integrating modelling of biodiversity composition and ecosystem function. <i>Oikos</i> , 2016 , 125, 10-19	4	28
82	Threatened species impact assessments: survey effort requirements based on criteria for cumulative impacts. <i>Diversity and Distributions</i> , 2015 , 21, 620-630	5	6
81	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
80	A global synthesis of survival estimates for microbats. <i>Biology Letters</i> , 2015 , 11,	3.6	19
79	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

78	Valid auto-models for spatially autocorrelated occupancy and abundance data. <i>Methods in Ecology and Evolution</i> , 2015 , 6, 1137-1149	7.7	44
77	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
76	Incorporating detectability of threatened species into environmental impact assessment. <i>Conservation Biology</i> , 2015 , 29, 216-25	6	24
75	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
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	Integrating biological and social values when prioritizing places for biodiversity conservation. <i>Conservation Biology</i> , 2014 , 28, 992-1003	6	83
72	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
71	Minimizing the cost of keeping options open for conservation in a changing climate. <i>Conservation Biology</i> , 2014 , 28, 646-53	6	15
70	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
69	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
68	Imperfect detection impacts the performance of species distribution models. <i>Global Ecology and Biogeography</i> , 2014 , 23, 504-515	6.1	176
67	Inferring extinctions from sighting records of variable reliability. <i>Journal of Applied Ecology</i> , 2014 , 51, 251-258	5.8	30
66	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
65	Using strategic foresight to assess conservation opportunity. <i>Conservation Biology</i> , 2014 , 28, 1474-83	6	15
64	Modelling the benefits of habitat restoration in socio-ecological systems. <i>Biological Conservation</i> , 2014 , 169, 60-67	6.2	27
63	Impacts of climate change and urban development on the spotted marsh frog (<i>Limnodynastes tasmaniensis</i>). <i>Austral Ecology</i> , 2013 , 38, 11-22	1.5	4
62	Incorporating uncertainty of management costs in sensitivity analyses of matrix population models. <i>Conservation Biology</i> , 2013 , 27, 134-44	6	9
61	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

60	A general model of detectability using species traits. <i>Methods in Ecology and Evolution</i> , 2013 , 4, 45-52	7.7	42
59	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
58	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
57	A protocol for better design, application, and communication of population viability analyses. <i>Conservation Biology</i> , 2013 , 27, 644-56	6	47
56	Predicting species distributions for conservation decisions. <i>Ecology Letters</i> , 2013 , 16, 1424-35	10	985
55	A new method for dealing with residual spatial autocorrelation in species distribution models. <i>Ecography</i> , 2012 , 35, 879-888	6.5	166
54	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
53	Designing occupancy surveys and interpreting non-detection when observations are imperfect. <i>Diversity and Distributions</i> , 2012 , 18, 417-424	5	57
52	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
51	Transparent planning for biodiversity and development in the urban fringe. <i>Landscape and Urban Planning</i> , 2012 , 108, 140-149	7.7	45
50	Uncertain sightings and the extinction of the Ivory-billed Woodpecker. <i>Conservation Biology</i> , 2012 , 26, 180-4	6	24
49	Choosing ecosystem service investments that are robust to uncertainty across multiple parameters 2012 , 22, 697-704		3
48	Ecological-economic optimization of biodiversity conservation under climate change. <i>Nature Climate Change</i> , 2011 , 1, 355-359	21.4	77
47	State-and-transition modelling for Adaptive Management of native woodlands. <i>Biological Conservation</i> , 2011 , 144, 1224-1236	6.2	70
46	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
45	Diets of sympatric native and introduced carnivores in the Barrington Tops, eastern Australia. <i>Austral Ecology</i> , 2011 , 36, 290-296	1.5	50
44	Habitat area, quality and connectivity: striking the balance for efficient conservation. <i>Journal of Applied Ecology</i> , 2011 , 48, 148-152	5.8	198
43	Quantifying variance components in ecological models based on expert opinion. <i>Journal of Applied Ecology</i> , 2011 , 48, 736-745	5.8	22

42	Hotspots of plant invasion predicted by propagule pressure and ecosystem characteristics. <i>Diversity and Distributions</i> , 2011 , 17, 1099-1110	5	77
41	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
40	How to build an efficient conservation fence. <i>Conservation Biology</i> , 2010 , 24, 182-8	6	35
39	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
38	Allocating monitoring effort in the face of unknown unknowns. <i>Ecology Letters</i> , 2010 , 13, 1325-37	10	113
37	The biodiversity bank cannot be a lending bank. <i>Conservation Letters</i> , 2010 , 3, 151-158	6.9	109
36	Active adaptive conservation of threatened species in the face of uncertainty 2010 , 20, 1476-89		75
35	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
34	Correlative and mechanistic models of species distribution provide congruent forecasts under climate change. <i>Conservation Letters</i> , 2010 , 3, 203-213	6.9	307
33	Reconciling uncertain costs and benefits in Bayes nets for invasive species management. <i>Risk Analysis</i> , 2010 , 30, 277-84	3.9	23
32	Environment. "True" conservation progress. <i>Science</i> , 2009 , 323, 43-4	33.3	30
31	Climate change, connectivity and conservation decision making: back to basics. <i>Journal of Applied Ecology</i> , 2009 , 46, 964-969	5.8	310
30	Comment on Methods to account for spatial autocorrelation in the analysis of species distributional data: a review <i>Ecography</i> , 2009 , 32, 374-378	6.5	47
29	Efficiently locating conservation boundaries: Searching for the Tasmanian devil facial tumour disease front. <i>Biological Conservation</i> , 2009 , 142, 1333-1339	6.2	7
28	Modelling human impacts on the Tasmanian wedge-tailed eagle (<i>Aquila audax fleayi</i>). <i>Biological Conservation</i> , 2009 , 142, 2438-2448	6.2	23
27	Dynamic Landscape Metapopulation Models and Sustainable Forest Management 2009 , 473-499		3
26	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
25	Using carbon investment to grow the biodiversity bank. <i>Conservation Biology</i> , 2008 , 22, 510-3	6	82

24	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
23	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
22	Adaptive risk management for certifiably sustainable forestry. <i>Forest Ecology and Management</i> , 2008 , 256, 1311-1319	3.9	39
21	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
20	Towards Adaptive Management of Native Vegetation in Regional Landscapes 2008 , 159-182		11
19	Future forests and indicator-species population models. <i>Forestry Chronicle</i> , 2007 , 83, 36-40	1	9
18	An info-gap approach to power and sample size calculations. <i>Environmetrics</i> , 2007 , 18, 189-203	1.3	11
17	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
16	Incorporating landscape stochasticity into population viability analysis 2007 , 17, 317-22		12
15	Use of confidence intervals to demonstrate performance against forest management standards. <i>Forest Ecology and Management</i> , 2007 , 247, 237-245	3.9	21
14	Planning for robust reserve networks using uncertainty analysis. <i>Ecological Modelling</i> , 2006 , 199, 115-124		80
13	Modeling species-habitat relationships with spatially autocorrelated observation data 2006 , 16, 1945-58		81
12	Uncertainty analysis favours selection of spatially aggregated reserve networks. <i>Biological Conservation</i> , 2006 , 129, 427-434	6.2	79
11	Uncertainty analysis for regional-scale reserve selection. <i>Conservation Biology</i> , 2006 , 20, 1688-97	6	73
10	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
9	Utility of Dynamic-Landscape Metapopulation Models for Sustainable Forest Management. <i>Conservation Biology</i> , 2005 , 19, 1930-1943	6	74
8	Zero tolerance ecology: improving ecological inference by modelling the source of zero observations. <i>Ecology Letters</i> , 2005 , 8, 1235-46	10	590
7	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

6	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
5	PRECISION AND BIAS OF METHODS FOR ESTIMATING POINT SURVEY DETECTION PROBABILITIES 2004 , 14, 703-712		108
4	The Use of Bayesian Model Averaging to Better Represent Uncertainty in Ecological Models. <i>Conservation Biology</i> , 2003 , 17, 1579-1590	6	192
3	Integrating species metrics into biodiversity offsetting calculations to improve long-term persistence. <i>Journal of Applied Ecology</i> ,	5.8	1
2	Design considerations for rapid biodiversity reconnaissance surveys and long-term monitoring to assess the impact of wildfire. <i>Diversity and Distributions</i> ,	5	2
1	Recognizing culturally significant species and Indigenous-led management is key to meeting international biodiversity obligations. <i>Conservation Letters</i> ,	6.9	1