Robert M Dorazio

List of Publications by Year
in descending order

75 papers	**4,494** citations	136950 **32** h-index	110387 **64** g-index
76 all docs	**76** docs citations	**76** times ranked	**4347** citing authors

#	Article	IF	Citations
1	Estimating Size and Composition of Biological Communities by Modeling the Occurrence of Species. Journal of the American Statistical Association, 2005, 100, 389-398.	3.1	416
2	ESTIMATING SPECIES RICHNESS AND ACCUMULATION BY MODELING SPECIES OCCURRENCE AND DETECTABILITY. Ecology, 2006, 87, 842-854.	3.2	362
3	Analysis of Multinomial Models With Unknown Index Using Data Augmentation. Journal of Computational and Graphical Statistics, 2007, 16, 67-85.	1.7	243
4	Occupancy estimation and the closure assumption. Journal of Applied Ecology, 2009, 46, 1173-1181.	4.0	203
5	Trend estimation in populations with imperfect detection. Journal of Applied Ecology, 2009, 46, 1163-1172.	4.0	198
6	Mixture Models for Estimating the Size of a Closed Population When Capture Rates Vary among Individuals. Biometrics, 2003, 59, 351-364.	1.4	195
7	Accounting for imperfect detection and survey bias in statistical analysis of presence€only data. Global Ecology and Biogeography, 2014, 23, 1472-1484.	5.8	187
8	Environmental DNA (eDNA) Sampling Improves Occurrence and Detection Estimates of Invasive Burmese Pythons. PLoS ONE, 2015, 10, e0121655.	2.5	166
9	A practical guide for combining data to model species distributions. Ecology, 2019, 100, e02710.	3.2	153
10	Parameter-expanded data augmentation for Bayesian analysis of capture–recapture models. Journal of Ornithology, 2012, 152, 521-537.	1.1	140
11	Hierarchical models of animal abundance and occurrence. Journal of Agricultural, Biological, and Environmental Statistics, 2006, 11, 249-263.	1.4	131
12	<scp>ednaoccupancy</scp>: An <scp>r</scp> package for multiscale occupancy modelling of environmental <scp>DNA</scp> data. Molecular Ecology Resources, 2018, 18, 368-380.	4.8	107
13	Detection limits of quantitative and digital <scp>PCR</scp> assays and their influence in presence–absence surveys of environmental <scp>DNA</scp>. Molecular Ecology Resources, 2017, 17, 221-229.	4.8	106
14	Species richness and occupancy estimation in communities subject to temporary emigration. Ecology, 2009, 90, 1279-1290.	3.2	105
15	USING COUNTS TO SIMULTANEOUSLY ESTIMATE ABUNDANCE AND DETECTION PROBABILITIES IN A SALAMANDER COMMUNITY. Herpetologica, 2004, 60, 468-478.	0.4	102
16	Models for inference in dynamic metacommunity systems. Ecology, 2010, 91, 2466-2475.	3.2	95
17	A new parameterization for estimating co€occurrence of interacting species. Ecological Applications, 2010, 20, 1467-1475.	3.8	95
18	Integrated species distribution models: combining presence€background data and site€occupancy data with imperfect detection. Methods in Ecology and Evolution, 2017, 8, 420-430.	5.2	80

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19	Improving Removal-Based Estimates of Abundance by Sampling a Population of Spatially Distinct Subpopulations. Biometrics, 2005, 61, 1093-1101.	1.4	78
20	Hierarchical Spatiotemporal Matrix Models for Characterizing Invasions. Biometrics, 2007, 63, 558-567.	1.4	78
21	BAYESIAN INFERENCE AND DECISION THEORYâ€"A FRAMEWORK FOR DECISION MAKING IN NATURAL RESOURCE MANAGEMENT. , 2003, 13, 556-563.		77
22	Predicting the Geographic Distribution of a Species from Presenceâ€Only Data Subject to Detection Errors. Biometrics, 2012, 68, 1303-1312.	1.4	68
23	Bayesian data analysis in population ecology: motivations, methods, and benefits. Population Ecology, 2016, 58, 31-44.	1.2	53
24	Modeling Unobserved Sources of Heterogeneity in Animal Abundance Using a Dirichlet Process Prior. Biometrics, 2008, 64, 635-644.	1.4	51
25	ON THE CHOICE OF STATISTICAL MODELS FOR ESTIMATING OCCURRENCE AND EXTINCTION FROM ANIMAL SURVEYS. Ecology, 2007, 88, 2773-2782.	3.2	50
26	Incorporating Imperfect Detection into Joint Models of Communities: A response to Warton et al.. Trends in Ecology and Evolution, 2016, 31, 736-737.	8.7	45
27	Occupancy estimation for rare species using a spatiallyâ€adaptive sampling design. Methods in Ecology and Evolution, 2016, 7, 285-293.	5.2	44
28	Relationships between streambed substrate characteristics and freshwater mussels (Bivalvia:Unionidae) in Coastal Plain streams. Journal of the North American Benthological Society, 2002, 21, 253-260.	3.1	43
29	Tag Recovery Estimates of Migration of Striped Bass from Spawning Areas of the Chesapeake Bay. Transactions of the American Fisheries Society, 1994, 123, 950-963.	1.4	42
30	Food-web manipulations influence grazer control of phytoplankton growth rates in Lake Michigan. Journal of Plankton Research, 1987, 9, 891-899.	1.8	41
31	Estimating abundance while accounting for rarity, correlated behavior, and other sources of variation in counts. Ecology, 2013, 94, 1472-1478.	3.2	39
32	On selecting a prior for the precision parameter of Dirichlet process mixture models. Journal of Statistical Planning and Inference, 2009, 139, 3384-3390.	0.6	36
33	Estimating the Effects of Habitat and Biological Interactions in an Avian Community. PLoS ONE, 2015, 10, e0135987.	2.5	36
34	Too risky to settle: avian community structure changes in response to perceived predation risk on adults and offspring. Proceedings of the Royal Society B: Biological Sciences, 2013, 280, 20130762.	2.6	34
35	Detecting temporal trends in species assemblages with bootstrapping procedures and hierarchical models. Philosophical Transactions of the Royal Society B: Biological Sciences, 2010, 365, 3621-3631.	4.0	33
36	A Gibbs sampler for Bayesian analysis of siteâ€occupancy data. Methods in Ecology and Evolution, 2012, 3, 1093-1098.	5.2	29

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37	Estimating Trends in Alligator Populations from Nightlight Survey Data. Wetlands, 2011, 31, 147-155.	1.5	28
38	Comparison of visual survey and seining methods for estimating abundance of an endangered, benthic stream fish. Environmental Biology of Fishes, 2008, 81, 313-319.	1.0	27
39	A two€phase sampling design for increasing detections of rare species in occupancy surveys. Methods in Ecology and Evolution, 2012, 3, 721-730.	5.2	26
40	Optimal reproductive strategies in age-structured populations of zooplankton. Freshwater Biology, 1983, 13, 157-175.	2.4	25
41	New aerial survey and hierarchical model to estimate manatee abundance. Journal of Wildlife Management, 2011, 75, 399-412.	1.8	24
42	Statistical Models for the Analysis and Design of Digital Polymerase Chain Reaction (dPCR) Experiments. Analytical Chemistry, 2015, 87, 10886-10893.	6.5	24
43	Estimating Abundances of Interacting Species Using Morphological Traits, Foraging Guilds, and Habitat. PLoS ONE, 2014, 9, e94323.	2.5	24
44	Effect of deforestation on prevalence of avian haemosporidian parasites and mosquito abundance in a tropical rainforest of Cameroon. International Journal for Parasitology, 2020, 50, 63-73.	3.1	23
45	Statistical Inference in Life-Table Experiments: The Finite Rate of Increase. Canadian Journal of Fisheries and Aquatic Sciences, 1984, 41, 1361-1374.	1.4	21
46	A sampling design and model for estimating abundance of Nile crocodiles while accounting for heterogeneity of detectability of multiple observers. Journal of Wildlife Management, 2012, 76, 966-975.	1.8	21
47	Regional Disparities in Obesity Among a Heterogeneous Population of Chinese Children and Adolescents. JAMA Network Open, 2021, 4, e2131040.	5.9	19
48	Estimating occupancy dynamics in an anuran assemblage from Louisiana, USA. Journal of Wildlife Management, 2011, 75, 751-761.	1.8	18
49	No evidence of interference competition among the invasive feral pig and two native peccary species in a Neotropical wetland. Journal of Tropical Ecology, 2011, 27, 557-561.	1.1	17
50	Environmental DNA sampling reveals high occupancy rates of invasive Burmese pythons at wading bird breeding aggregations in the central Everglades. PLoS ONE, 2019, 14, e0213943.	2.5	17
51	Physiological tolerances of juvenile robust redhorse, Moxostoma robustum: conservation implications for an imperiled species. Environmental Biology of Fishes, 1998, 51, 429-444.	1.0	15
52	Design-Based and Model-Based Inference in Surveys of Freshwater Mollusks. Journal of the North American Benthological Society, 1999, 18, 118-131.	3.1	15
53	Rejoinder to "The Performance of Mixture Models in Heterogeneous Closed Population Capture-Recapture". Biometrics, 2005, 61, 874-876.	1.4	15
54	A hierarchical model for estimating the spatial distribution and abundance of animals detected by continuous-time recorders. PLoS ONE, 2017, 12, e0176966.	2.5	15

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55	Monitoring for freshwater mussel presence in rivers using environmental DNA. Environmental DNA, 2021, 3, 591-604.	5.8	13
56	Evaluation of a Mark–Recapture Method for Estimating Mortality and Migration Rates of Stratified Populations. Canadian Journal of Fisheries and Aquatic Sciences, 1991, 48, 254-260.	1.4	12
57	Bayes and Empirical Bayes Estimators of Abundance and Density from Spatial Capture-Recapture Data. PLoS ONE, 2013, 8, e84017.	2.5	12
58	Using environmental DNA and occupancy modelling to estimate rangewide metapopulation dynamics. Molecular Ecology, 2021, 30, 3340-3354.	3.9	12
59	Immunological Discrimination of Atlantic Striped Bass Stocks. Transactions of the American Fisheries Society, 1990, 119, 77-85.	1.4	11
60	Dynamics of individual growth in a recovering population of lake trout (*Salvelinus*) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 542 Td (nam	1.4	11
61	Prerelease Stratification in Tag-Recovery Models with Time Dependence. Canadian Journal of Fisheries and Aquatic Sciences, 1993, 50, 535-541.	1.4	10
62	State-space models to infer movements and behavior of fish detected in a spatial array of acoustic receivers. Canadian Journal of Fisheries and Aquatic Sciences, 2019, 76, 543-550.	1.4	10
63	Time series sightability modeling of animal populations. PLoS ONE, 2018, 13, e0190706.	2.5	10
64	The Use of Morning Urinary Gonadotropins and Sex Hormones in the Management of Early Puberty in Chinese Girls. Journal of Clinical Endocrinology and Metabolism, 2021, 106, e4520-e4530.	3.6	9
65	Estimating abundance while accounting for rarity, correlated behavior, and other sources of variation in counts. Ecology, 2013, 94, 1472-1478.	3.2	9
66	Stocking of Hatchery-Reared Striped Bass in the Patuxent River, Maryland: Survival, Relative Abundance, and Cost-Effectiveness. North American Journal of Fisheries Management, 1991, 11, 435-442.	1.0	8
67	State-Dependent Resource Harvesting with Lagged Information about System States. PLoS ONE, 2016, 11, e0157373.	2.5	6
68	Occupancy and abundance of wintering birds in a dynamic agricultural landscape. Journal of Wildlife Management, 2011, 75, 836-847.	1.8	5
69	Concepts: Assessing Tiger Population Dynamics Using Capture–Recapture Sampling. , 2017, , 163-189.		5
70	TAILORING POINT COUNTS FOR INFERENCE ABOUT AVIAN DENSITY: DEALING WITH NONDETECTION AND AVAILABILITY. Natural Resource Modelling, 2014, 27, 163-177.	2.0	4
71	Field Practices: Assessing Tiger Population Dynamics Using Photographic Captures. , 2017, , 191-224.		4
72	Mortality Estimates of Striped Bass Caught in Albemarle Sound and Roanoke River, North Carolina. North American Journal of Fisheries Management, 1995, 15, 290-299.	1.0	3

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73	Objective prior distributions for Jolly–Seber models of zero–augmented data. Biometrics, 2020, 76, 1285-1296.	1.4	3
74	Title is missing!. Environmental and Ecological Statistics, 1997, 4, 235-246.	3.5	2
75	Risk factors for peripherally inserted central catheterization-associated bloodstream infection in neonates.. Chinese Journal of Contemporary Pediatrics, 2022, 24, 141-146.	0.2	0