

James D Nichols

List of Publications by Year in descending order

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127
papers

19,030
citations

28190

55
h-index

26548

107
g-index

135
all docs

135
docs citations

135
times ranked

11355
citing authors

#	ARTICLE	IF	CITATIONS
1	ESTIMATING SITE OCCUPANCY RATES WHEN DETECTION PROBABILITIES ARE LESS THAN ONE. <i>Ecology</i> , 2002, 83, 2248-2255.	1.5	3,271
2	ESTIMATING SITE OCCUPANCY, COLONIZATION, AND LOCAL EXTINCTION WHEN A SPECIES IS DETECTED IMPERFECTLY. <i>Ecology</i> , 2003, 84, 2200-2207.	1.5	1,274
3	Monitoring of biological diversity in space and time. <i>Trends in Ecology and Evolution</i> , 2001, 16, 446-453.	4.2	1,055
4	ESTIMATING ABUNDANCE FROM REPEATED PRESENCE-ABSENCE DATA OR POINT COUNTS. <i>Ecology</i> , 2003, 84, 777-790.	1.5	1,013
5	Monitoring for conservation. <i>Trends in Ecology and Evolution</i> , 2006, 21, 668-673.	4.2	1,002
6	ESTIMATING TEMPORARY EMIGRATION USING CAPTURE-RECAPTURE DATA WITH POLLOCK'S ROBUST DESIGN. <i>Ecology</i> , 1997, 78, 563-578.	1.5	567
7	Tigers and their prey: Predicting carnivore densities from prey abundance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 4854-4858.	3.3	513
8	Large scale wildlife monitoring studies: statistical methods for design and analysis. <i>Environmetrics</i> , 2002, 13, 105-119.	0.6	512
9	A Double-Observer Approach for Estimating Detection Probability and Abundance From Point Counts. <i>Auk</i> , 2000, 117, 393-408.	0.7	477
10	Estimates of Movement and Site Fidelity Using Mark-Resight Data of Wintering Canada Geese. <i>Ecology</i> , 1991, 72, 523-533.	1.5	418
11	Investigating species co-occurrence patterns when species are detected imperfectly. <i>Journal of Animal Ecology</i> , 2004, 73, 546-555.	1.3	357
12	IMPROVING INFERENCES IN POPULATION STUDIES OF RARE SPECIES THAT ARE DETECTED IMPERFECTLY. <i>Ecology</i> , 2005, 86, 1101-1113.	1.5	328
13	Multi-scale occupancy estimation and modelling using multiple detection methods. <i>Journal of Applied Ecology</i> , 2008, 45, 1321-1329.	1.9	306
14	Improving occupancy estimation when two types of observational error occur: non-detection and species misidentification. <i>Ecology</i> , 2011, 92, 1422-1428.	1.5	305
15	A Removal Model for Estimating Detection Probabilities From Point-Count Surveys. <i>Auk</i> , 2002, 119, 414-425.	0.7	301
16	Chapter 3 Modeling Individual Animal Histories with Multistate Capture-Recapture Models. <i>Advances in Ecological Research</i> , 2009, 41, 87-173.	1.4	277
17	Modeling species occurrence dynamics with multiple states and imperfect detection. <i>Ecology</i> , 2009, 90, 823-835.	1.5	230
18	Structured decision making as a conceptual framework to identify thresholds for conservation and management. <i>Ecological Applications</i> , 2009, 19, 1079-1090.	1.8	224

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19	The use of multi-state capture-recapture models to address questions in evolutionary ecology. <i>Journal of Applied Statistics</i> , 1995, 22, 835-846.	0.6	216
20	Monitoring carnivore populations at the landscape scale: occupancy modelling of tigers from sign surveys. <i>Journal of Applied Ecology</i> , 2011, 48, 1048-1056.	1.9	209
21	Adaptive harvest management of North American waterfowl populations: a brief history and future prospects. <i>Journal Fur Ornithologie</i> , 2007, 148, 343-349.	1.2	205
22	The Role of Local Populations within a Landscape Context: Defining and Classifying Sources and Sinks. <i>American Naturalist</i> , 2006, 167, 925-938.	1.0	201
23	Managing North American Waterfowl in the Face of Uncertainty. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 1995, 26, 177-199.	6.7	200
24	Estimating Breeding Proportions and Testing Hypotheses about Costs of Reproduction with Capture-Recapture Data. <i>Ecology</i> , 1994, 75, 2052-2065.	1.5	191
25	SAMPLING DESIGN TRADE-OFFS IN OCCUPANCY STUDIES WITH IMPERFECT DETECTION: EXAMPLES AND SOFTWARE. , 2007, 17, 281-290.		190
26	Estimating Annual Survival and Movement Rates of Adults within a Metapopulation of Roseate Terns. <i>Ecology</i> , 1995, 76, 2415-2428.	1.5	180
27	Advances and applications of occupancy models. <i>Methods in Ecology and Evolution</i> , 2014, 5, 1269-1279.	2.2	176
28	Seeking a second opinion: uncertainty in disease ecology. <i>Ecology Letters</i> , 2010, 13, 659-674.	3.0	172
29	ARE ADULT NONBREEDERS PRUDENT PARENTS? THE KITTIWAKE MODEL. <i>Ecology</i> , 1998, 79, 2917-2930.	1.5	167
30	OCCUPANCY ESTIMATION AND MODELING WITH MULTIPLE STATES AND STATE UNCERTAINTY. <i>Ecology</i> , 2007, 88, 1395-1400.	1.5	162
31	The shrinking ark: patterns of large mammal extinctions in India. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2010, 277, 1971-1979.	1.2	148
32	ESTIMATION OF CONTRIBUTIONS TO POPULATION GROWTH: A REVERSE-TIME CAPTURE-RECAPTURE APPROACH. <i>Ecology</i> , 2000, 81, 3362-3376.	1.5	138
33	Estimating State-Transition Probabilities for Unobservable States Using Capture-Recapture/Resighting Data. <i>Ecology</i> , 2002, 83, 3276.	1.5	131
34	The effects of habitat, climate, and Barred Owls on long-term demography of Northern Spotted Owls. <i>Condor</i> , 2016, 118, 57-116.	0.7	126
35	Climate change, uncertainty, and natural resource management. <i>Journal of Wildlife Management</i> , 2011, 75, 6-18.	0.7	121
36	Modeling false positive detections in species occurrence data under different study designs. <i>Ecology</i> , 2015, 96, 332-339.	1.5	121

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37	Standards for documenting and monitoring bird reintroduction projects. <i>Conservation Letters</i> , 2010, 3, 229-235.	2.8	115
38	Conservation in the face of climate change: The roles of alternative models, monitoring, and adaptation in confronting and reducing uncertainty. <i>Biological Conservation</i> , 2011, 144, 1204-1213.	1.9	115
39	Patterns and determinants of mammal species occurrence in India. <i>Journal of Applied Ecology</i> , 2009, 46, 1189-1200.	1.9	113
40	Species Co-Occurrence. , 2018, , 509-556.		113
41	Inferences About Landbird Abundance from Count Data: Recent Advances and Future Directions. , 2009, , 201-235.		111
42	Status and Trends in Demography of Northern Spotted Owls, 1985â€“2003. <i>Wildlife Monographs</i> , 2006, 163, 1-48.	2.0	110
43	To predict the niche, model colonization and extinction. <i>Ecology</i> , 2015, 96, 16-23.	1.5	102
44	The roles of competition and habitat in the dynamics of populations and species distributions. <i>Ecology</i> , 2014, 95, 265-279.	1.5	101
45	Modeling co-occurrence of northern spotted and barred owls: Accounting for detection probability differences. <i>Biological Conservation</i> , 2009, 142, 2983-2989.	1.9	88
46	Joint estimation of habitat dynamics and species interactions: disturbance reduces co-occurrence of non-native predators with an endangered toad. <i>Journal of Animal Ecology</i> , 2012, 81, 1288-1297.	1.3	87
47	Determining Occurrence Dynamics when False Positives Occur: Estimating the Range Dynamics of Wolves from Public Survey Data. <i>PLoS ONE</i> , 2013, 8, e65808.	1.1	86
48	ESTIMATION OF SEX-SPECIFIC SURVIVAL FROM CAPTUREâ€“RECAPTURE DATA WHEN SEX IS NOT ALWAYS KNOWN. <i>Ecology</i> , 2004, 85, 3192-3201.	1.5	85
49	Population Dynamics of the California Spotted Owl (<i>Strix occidentalis occidentalis</i>): A Meta-Analysis. <i>Ornithological Monographs</i> , 2004, , 1-54.	1.3	84
50	Occupancy models for citizen-science data. <i>Methods in Ecology and Evolution</i> , 2019, 10, 8-21.	2.2	83
51	Estimating taxonomic diversity, extinction rates, and speciation rates from fossil data using capture-recapture models. <i>Paleobiology</i> , 1983, 9, 150-163.	1.3	81
52	Estimation of Recruitment from Immigration Versus In Situ Reproduction Using Pollock's Robust Design. <i>Ecology</i> , 1990, 71, 21-26.	1.5	81
53	Density estimation in tiger populations: combining information for strong inference. <i>Ecology</i> , 2012, 93, 1741-1751.	1.5	77
54	ADJUSTING MULTISTATE CAPTUREâ€“RECAPTURE MODELS FOR MISCLASSIFICATION BIAS: MANATEE BREEDING PROPORTIONS. <i>Ecology</i> , 2003, 84, 1058-1066.	1.5	72

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55	Neighborhood and habitat effects on vital rates: expansion of the Barred Owl in the Oregon Coast Ranges. <i>Ecology</i> , 2012, 93, 1953-1966.	1.5	72
56	Multilevel Learning in the Adaptive Management of Waterfowl Harvests: 20 Years and Counting. <i>Wildlife Society Bulletin</i> , 2015, 39, 9-19.	1.6	68
57	Demographic consequences of migratory stopover: linking red knot survival to horseshoe crab spawning abundance. <i>Ecosphere</i> , 2011, 2, art69.	1.0	67
58	Dynamic occupancy models for analyzing species' range dynamics across large geographic scales. <i>Ecology and Evolution</i> , 2013, 3, 4896-4909.	0.8	66
59	Dynamic multistate site occupancy models to evaluate hypotheses relevant to conservation of Golden Eagles in Denali National Park, Alaska. <i>Biological Conservation</i> , 2009, 142, 2726-2731.	1.9	63
60	On the estimation of species richness based on the accumulation of previously unrecorded species. <i>Ecography</i> , 2002, 25, 102-108.	2.1	61
61	Relaxing the closure assumption in occupancy models: staggered arrival and departure times. <i>Ecology</i> , 2013, 94, 610-617.	1.5	56
62	Accumulating evidence in ecology: Once is not enough. <i>Ecology and Evolution</i> , 2019, 9, 13991-14004.	0.8	54
63	Structured decision making as a proactive approach to dealing with sea level rise in Florida. <i>Climatic Change</i> , 2011, 107, 185-202.	1.7	50
64	Accounting for false-positive acoustic detections of bats using occupancy models. <i>Journal of Applied Ecology</i> , 2014, 51, 1460-1467.	1.9	49
65	An Adaptive-Management Framework for Optimal Control of Hiking Near Golden Eagle Nests in Denali National Park. <i>Conservation Biology</i> , 2011, 25, no-no.	2.4	48
66	Testing metapopulation concepts: effects of patch characteristics and neighborhood occupancy on the dynamics of an endangered lagomorph. <i>Oikos</i> , 2014, 123, 662-676.	1.2	44
67	A new framework for analysing automated acoustic species detection data: Occupancy estimation and optimization of recordings post-processing. <i>Methods in Ecology and Evolution</i> , 2018, 9, 560-570.	2.2	44
68	Sources of variation in extinction rates, turnover, and diversity of marine invertebrate families during the Paleozoic. <i>Paleobiology</i> , 1986, 12, 421-432.	1.3	42
69	An integrated model of habitat and species occurrence dynamics. <i>Methods in Ecology and Evolution</i> , 2011, 2, 612-622.	2.2	42
70	When habitat matters: Habitat preferences can modulate co-occurrence patterns of similar sympatric species. <i>PLoS ONE</i> , 2017, 12, e0179489.	1.1	42
71	Habitat-specific breeder survival of Florida Scrub-Jays: inferences from multistate models. <i>Ecology</i> , 2009, 90, 3180-3189.	1.5	41
72	Community-managed forests and wildlife-friendly agriculture play a subsidiary but not substitutive role to protected areas for the endangered Asian elephant. <i>Biological Conservation</i> , 2014, 177, 74-81.	1.9	40

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73	MULTISPECIES MODELING FOR ADAPTIVE MANAGEMENT OF HORSESHOE CRABS AND RED KNOTS IN THE DELAWARE BAY. <i>Natural Resource Modelling</i> , 2011, 24, 117-156.	0.8	39
74	On formally integrating science and policy: walking the walk. <i>Journal of Applied Ecology</i> , 2015, 52, 539-543.	1.9	39
75	Implementation of a framework for multi-species, multi-objective adaptive management in Delaware Bay. <i>Biological Conservation</i> , 2015, 191, 759-769.	1.9	39
76	Multiseason occupancy models for correlated replicate surveys. <i>Methods in Ecology and Evolution</i> , 2014, 5, 583-591.	2.2	36
77	Population Dynamics of Spotted Owls in the Sierra Nevada, California. <i>Wildlife Monographs</i> , 2010, 174, 1-36.	2.0	35
78	Multistate modeling of habitat dynamics: factors affecting Florida scrub transition probabilities. <i>Ecology</i> , 2010, 91, 3354-3364.	1.5	35
79	Estimating Rates and Probabilities of Origination and Extinction Using Taxonomic Occurrence Data: Capture-Mark-Recapture (CMR) Approaches. <i>The Paleontological Society Papers</i> , 2010, 16, 81-94.	0.8	34
80	Estimating occupancy and predicting numbers of gray wolf packs in Montana using hunter surveys. <i>Journal of Wildlife Management</i> , 2013, 77, 1280-1289.	0.7	34
81	Evaluating a multispecies adaptive management framework: must uncertainty impede effective decision-making?. <i>Journal of Applied Ecology</i> , 2013, 50, 1431-1440.	1.9	31
82	A better approach for dealing with reproducibility and replicability in science. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	31
83	Estimating indices of range shifts in birds using dynamic models when detection is imperfect. <i>Global Change Biology</i> , 2016, 22, 3273-3285.	4.2	30
84	Perturbation analysis for patch occupancy dynamics. <i>Ecology</i> , 2009, 90, 10-16.	1.5	29
85	A Strategy for Monitoring and Managing Declines in an Amphibian Community. <i>Conservation Biology</i> , 2013, 27, 1245-1253.	2.4	26
86	ESTIMATING SPECIES-SPECIFIC SURVIVAL AND MOVEMENT WHEN SPECIES IDENTIFICATION IS UNCERTAIN. <i>Ecology</i> , 2007, 88, 282-288.	1.5	25
87	Invader removal triggers competitive release in a threatened avian predator. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	24
88	Testing for variation in taxonomic extinction probabilities: a suggested methodology and some results. <i>Paleobiology</i> , 1984, 10, 328-337.	1.3	22
89	Testing hypotheses on distribution shifts and changes in phenology of imperfectly detectable species. <i>Methods in Ecology and Evolution</i> , 2015, 6, 638-647.	2.2	22
90	The relationship between annual survival rate and migration distance in mallards: an examination of the time-allocation hypothesis for the evolution of migration. <i>Canadian Journal of Zoology</i> , 1992, 70, 2021-2027.	0.4	20

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91	Resilience Thinking and a Decision-Analytic Approach to Conservation: Strange Bedfellows or Essential Partners?. <i>Ecology and Society</i> , 2013, 18, .	1.0	20
92	Science, Conservation, and Camera Traps. , 2011, , 45-56.		20
93	Occurrence and distribution of Indian primates. <i>Biological Conservation</i> , 2010, 143, 2891-2899.	1.9	19
94	Modeling habitat dynamics accounting for possible misclassification. <i>Landscape Ecology</i> , 2012, 27, 943-956.	1.9	19
95	Integrating Land Cover Modeling and Adaptive Management to Conserve Endangered Species and Reduce Catastrophic Fire Risk. <i>Land</i> , 2014, 3, 874-897.	1.2	19
96	Roseate <sc>tern breeding dispersal and fidelity: responses to two newly restored colony sites. <i>Ecosphere</i> , 2016, 7, e01510.	1.0	16
97	Exploring sensitivity of a multistate occupancy model to inform management decisions. <i>Journal of Applied Ecology</i> , 2011, 48, 1007-1016.	1.9	15
98	Twoâ€species occupancy modelling accounting for species misidentification and nonâ€detection. <i>Methods in Ecology and Evolution</i> , 2018, 9, 1468-1477.	2.2	15
99	The Role of Abundance Estimates in Conservation Decision-Making. , 2014, , 117-131.		11
100	Partitioning global change: Assessing the relative importance of changes in climate and land cover for changes in avian distribution. <i>Ecology and Evolution</i> , 2019, 9, 1985-2003.	0.8	10
101	Camera Traps in Animal Ecology and Conservation: Whatâ€™s Next?. , 2011, , 253-263.		10
102	Confronting uncertainty: Contributions of the wildlife profession to the broader scientific community. <i>Journal of Wildlife Management</i> , 2019, 83, 519-533.	0.7	9
103	Strategic testing approaches for targeted disease monitoring can be used to inform pandemic decision-making. <i>PLoS Biology</i> , 2021, 19, e3001307.	2.6	9
104	Monitoring for the Management of Disease Risk in Animal Translocation Programmes. <i>EcoHealth</i> , 2017, 14, 156-166.	0.9	8
105	Evaluation of nutria (<i>Myocastor coypus</i>) detection methods in Maryland, USA. <i>Biological Invasions</i> , 2017, 19, 831-841.	1.2	8
106	Thresholds for Conservation and Management: Structured Decision Making as a Conceptual Framework. , 2014, , 9-28.		8
107	Synergistic interventions to control COVID-19: Mass testing and isolation mitigates reliance on distancing. <i>PLoS Computational Biology</i> , 2021, 17, e1009518.	1.5	8
108	Evidence, models, conservation programs and limits to management. <i>Animal Conservation</i> , 2012, 15, 331-333.	1.5	6

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109	Estimating detection and identification probabilities in maritime target acquisition. Applied Optics, 2013, 52, 2531.	0.9	6
110	Selecting among competing models of electro-optic, infrared camera system range performance. Optical Engineering, 2013, 52, 113108.	0.5	6
111	A multi-state occupancy modelling framework for robust estimation of disease prevalence in multi-tissue disease systems. Journal of Applied Ecology, 2020, 57, 2463-2474.	1.9	6
112	State-Dependent Resource Harvesting with Lagged Information about System States. PLoS ONE, 2016, 11, e0157373.	1.1	6
113	Occupancy Applications. , 2018, , 27-70.		5
114	Integrated hierarchical models to inform management of transitional habitat and the recovery of a habitat specialist. Ecosphere, 2021, 12, e03306.	1.0	5
115	Basic Presence/Absence Situation. , 2018, , 115-215.		4
116	Spatial Dynamics and Ecology of Large Ungulate Populations in Tropical Forests of India. , 2021, , .		4
117	Surveillance theory applied to virus detection: a case for targeted discovery. Future Virology, 2013, 8, 1201-1206.	0.9	3
118	Extensions to Basic Approaches. , 2018, , 243-311.		3
119	Optimization in Natural Resources Conservation. , 2014, , 45-65.		3
120	More than Two Occupancy States. , 2018, , 377-397.		2
121	Informed Decision Processes for Tiger Conservation: A Vision for the Future. , 2017, , 289-303.		1
122	Animal Population Monitoring: A Unified Conceptual Framework. , 2017, , 35-46.		0
123	Concepts: Assessing Tiger Habitat Occupancy Dynamics. , 2017, , 47-70.		0
124	Beyond Two Occupancy States. , 2018, , 217-241.		0
125	Introduction: The Conservation Issue. , 2021, , 1-33.		0
126	Assessing Threats to Ungulates and Management Responses. , 2021, , 167-184.		0

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127	Conservation of Tropical Forest Ungulates: The Way Forward. , 2021, , 185-195.		0