James D Nichols

List of Publications by Year
in descending order

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	Introduction: The Conservation Issue. , 2021, , 1-33.		0
2	Assessing Threats to Ungulates and Management Responses. , 2021, , 167-184.		0
3	Spatial Dynamics and Ecology of Large Ungulate Populations in Tropical Forests of India. , 2021, , .		4
4	A better approach for dealing with reproducibility and replicability in science. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	31
5	Strategic testing approaches for targeted disease monitoring can be used to inform pandemic decision-making. PLoS Biology, 2021, 19, e3001307.	2.6	9
6	Invader removal triggers competitive release in a threatened avian predator. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	24
7	Integrated hierarchical models to inform management of transitional habitat and the recovery of a habitat specialist. Ecosphere, 2021, 12, e03306.	1.0	5
8	Synergistic interventions to control COVID-19: Mass testing and isolation mitigates reliance on distancing. PLoS Computational Biology, 2021, 17, e1009518.	1.5	8
9	Conservation of Tropical Forest Ungulates: The Way Forward. , 2021, , 185-195.		0
10	A multiâ€state occupancy modelling framework for robust estimation of disease prevalence in multiâ€tissue disease systems. Journal of Applied Ecology, 2020, 57, 2463-2474.	1.9	6
11	Confronting uncertainty: Contributions of the wildlife profession to the broader scientific community. Journal of Wildlife Management, 2019, 83, 519-533.	0.7	9
12	Partitioning global change: Assessing the relative importance of changes in climate and land cover for changes in avian distribution. Ecology and Evolution, 2019, 9, 1985-2003.	0.8	10
13	Occupancy models for citizenâ€science data. Methods in Ecology and Evolution, 2019, 10, 8-21.	2.2	83
14	Accumulating evidence in ecology: Once is not enough. Ecology and Evolution, 2019, 9, 13991-14004.	0.8	54
15	Twoâ€species occupancy modelling accounting for species misidentification and nonâ€detection. Methods in Ecology and Evolution, 2018, 9, 1468-1477.	2.2	15
16	Occupancy Applications. , 2018, , 27-70.		5
17	Basic Presence/Absence Situation. , 2018, , 115-215.		4
18	Beyond Two Occupancy States. , 2018, , 217-241.		0

#	Article	IF	Citations
19	Extensions to Basic Approaches. , 2018, , 243-311.		3
20	More than Two Occupancy States. , 2018, , 377-397.		2
21	Species Co-Occurrence. , 2018, , 509-556.		113
22	A new framework for analysing automated acoustic species detection data: Occupancy estimation and optimization of recordings postâ€processing. Methods in Ecology and Evolution, 2018, 9, 560-570.	2.2	44
23	Monitoring for the Management of Disease Risk in Animal Translocation Programmes. EcoHealth, 2017, 14, 156-166.	0.9	8
24	Informed Decision Processes for Tiger Conservation: A Vision for the Future. , 2017, , 289-303.		1
25	Animal Population Monitoring: A Unified Conceptual Framework. , 2017, , 35-46.		0
26	Concepts: Assessing Tiger Habitat Occupancy Dynamics. , 2017, , 47-70.		0
27	Evaluation of nutria (Myocastor coypus) detection methods in Maryland, USA. Biological Invasions, 2017, 19, 831-841.	1.2	8
28	When habitat matters: Habitat preferences can modulate co-occurrence patterns of similar sympatric species. PLoS ONE, 2017, 12, e0179489.	1.1	42
29	Estimating indices of range shifts in birds using dynamic models when detection is imperfect. Global Change Biology, 2016, 22, 3273-3285.	4.2	30
30	Roseate <scp>T</scp>ern breeding dispersal and fidelity: responses to two newly restored colony sites. Ecosphere, 2016, 7, e01510.	1.0	16
31	The effects of habitat, climate, and Barred Owls on long-term demography of Northern Spotted Owls. Condor, 2016, 118, 57-116.	0.7	126
32	State-Dependent Resource Harvesting with Lagged Information about System States. PLoS ONE, 2016, 11, e0157373.	1.1	6
33	On formally integrating science and policy: walking the walk. Journal of Applied Ecology, 2015, 52, 539-543.	1.9	39
34	Multilevel Learning in the Adaptive Management of Waterfowl Harvests: 20 Years and Counting. Wildlife Society Bulletin, 2015, 39, 9-19.	1.6	68
35	Testing hypotheses on distribution shifts and changes in phenology of imperfectly detectable species. Methods in Ecology and Evolution, 2015, 6, 638-647.	2.2	22
36	Implementation of a framework for multi-species, multi-objective adaptive management in Delaware Bay. Biological Conservation, 2015, 191, 759-769.	1.9	39

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37	Modeling false positive detections in species occurrence data under different study designs. Ecology, 2015, 96, 332-339.	1.5	121
38	To predict the niche, model colonization and extinction. Ecology, 2015, 96, 16-23.	1.5	102
39	Integrating Land Cover Modeling and Adaptive Management to Conserve Endangered Species and Reduce Catastrophic Fire Risk. Land, 2014, 3, 874-897.	1.2	19
40	Advances and applications of occupancy models. Methods in Ecology and Evolution, 2014, 5, 1269-1279.	2.2	176
41	The roles of competition and habitat in the dynamics of populations and species distributions. Ecology, 2014, 95, 265-279.	1.5	101
42	Testing metapopulation concepts: effects of patch characteristics and neighborhood occupancy on the dynamics of an endangered lagomorph. Oikos, 2014, 123, 662-676.	1.2	44
43	Community-managed forests and wildlife-friendly agriculture play a subsidiary but not substitutive role to protected areas for the endangered Asian elephant. Biological Conservation, 2014, 177, 74-81.	1.9	40
44	Multiseason occupancy models for correlated replicate surveys. Methods in Ecology and Evolution, 2014, 5, 583-591.	2.2	36
45	Accounting for falseâ€positive acoustic detections of bats using occupancy models. Journal of Applied Ecology, 2014, 51, 1460-1467.	1.9	49
46	Thresholds for Conservation and Management: Structured Decision Making as a Conceptual Framework. , 2014, , 9-28.		8
47	Optimization in Natural Resources Conservation. , 2014, , 45-65.		3
48	The Role of Abundance Estimates in Conservation Decision-Making. , 2014, , 117-131.		11
49	Evaluating a multispecies adaptive management framework: must uncertainty impede effective decisionâ€making?. Journal of Applied Ecology, 2013, 50, 1431-1440.	1.9	31
50	A Strategy for Monitoring and Managing Declines in an Amphibian Community. Conservation Biology, 2013, 27, 1245-1253.	2.4	26
51	Dynamic occupancy models for analyzing species' range dynamics across large geographic scales. Ecology and Evolution, 2013, 3, 4896-4909.	0.8	66
52	Relaxing the closure assumption in occupancy models: staggered arrival and departure times. Ecology, 2013, 94, 610-617.	1.5	56
53	Estimating occupancy and predicting numbers of gray wolf packs in Montana using hunter surveys. Journal of Wildlife Management, 2013, 77, 1280-1289.	0.7	34
54	Estimating detection and identification probabilities in maritime target acquisition. Applied Optics, 2013, 52, 2531.	0.9	6

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55	Resilience Thinking and a Decision-Analytic Approach to Conservation: Strange Bedfellows or Essential Partners?. Ecology and Society, 2013, 18, .	1.0	20
56	Selecting among competing models of electro-optic, infrared camera system range performance. Optical Engineering, 2013, 52, 113108.	0.5	6
57	Surveillance theory applied to virus detection: a case for targeted discovery. Future Virology, 2013, 8, 1201-1206.	0.9	3
58	Determining Occurrence Dynamics when False Positives Occur: Estimating the Range Dynamics of Wolves from Public Survey Data. PLoS ONE, 2013, 8, e65808.	1.1	86
59	Neighborhood and habitat effects on vital rates: expansion of the Barred Owl in the Oregon Coast Ranges. Ecology, 2012, 93, 1953-1966.	1.5	72
60	Evidence, models, conservation programs and limits to management. Animal Conservation, 2012, 15, 331-333.	1.5	6
61	Density estimation in tiger populations: combining information for strong inference. Ecology, 2012, 93, 1741-1751.	1.5	77
62	Modeling habitat dynamics accounting for possible misclassification. Landscape Ecology, 2012, 27, 943-956.	1.9	19
63	Joint estimation of habitat dynamics and species interactions: disturbance reduces coâ€•occurrence of nonâ€•native predators with an endangered toad. Journal of Animal Ecology, 2012, 81, 1288-1297.	1.3	87
64	Demographic consequences of migratory stopover: linking red knot survival to horseshoe crab spawning abundance. Ecosphere, 2011, 2, art69.	1.0	67
65	Conservation in the face of climate change: The roles of alternative models, monitoring, and adaptation in confronting and reducing uncertainty. Biological Conservation, 2011, 144, 1204-1213.	1.9	115
66	Improving occupancy estimation when two types of observational error occur: non-detection and species misidentification. Ecology, 2011, 92, 1422-1428.	1.5	305
67	MULTISPECIES MODELING FOR ADAPTIVE MANAGEMENT OF HORSESHOE CRABS AND RED KNOTS IN THE DELAWARE BAY. Natural Resource Modelling, 2011, 24, 117-156.	0.8	39
68	An integrated model of habitat and species occurrence dynamics. Methods in Ecology and Evolution, 2011, 2, 612-622.	2.2	42
69	Exploring sensitivity of a multistate occupancy model to inform management decisions. Journal of Applied Ecology, 2011, 48, 1007-1016.	1.9	15
70	Monitoring carnivore populations at the landscape scale: occupancy modelling of tigers from sign surveys. Journal of Applied Ecology, 2011, 48, 1048-1056.	1.9	209
71	An Adaptive-Management Framework for Optimal Control of Hiking Near Golden Eagle Nests in Denali National Park. Conservation Biology, 2011, 25, no-no.	2.4	48
72	Climate change, uncertainty, and natural resource management. Journal of Wildlife Management, 2011, 75, 6-18.	0.7	121

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73	Structured decision making as a proactive approach to dealing with sea level rise in Florida. Climatic Change, 2011, 107, 185-202.	1.7	50
74	Camera Traps in Animal Ecology and Conservation: Whatâ€™s Next?. , 2011, , 253-263.		10
75	Science, Conservation, and Camera Traps. , 2011, , 45-56.		20
76	Population Dynamics of Spotted Owls in the Sierra Nevada, California. Wildlife Monographs, 2010, 174, 1-36.	2.0	35
77	Seeking a second opinion: uncertainty in disease ecology. Ecology Letters, 2010, 13, 659-674.	3.0	172
78	Estimating Rates and Probabilities of Origination and Extinction Using Taxonomic Occurrence Data: Capture-Mark-Recapture (CMR) Approaches. The Paleontological Society Papers, 2010, 16, 81-94.	0.8	34
79	The shrinking ark: patterns of large mammal extinctions in India. Proceedings of the Royal Society B: Biological Sciences, 2010, 277, 1971-1979.	1.2	148
80	Multistate modeling of habitat dynamics: factors affecting Florida scrub transition probabilities. Ecology, 2010, 91, 3354-3364.	1.5	35
81	Standards for documenting and monitoring bird reintroduction projects. Conservation Letters, 2010, 3, 229-235.	2.8	115
82	Occurrence and distribution of Indian primates. Biological Conservation, 2010, 143, 2891-2899.	1.9	19
83	Habitat-specific breeder survival of Florida Scrub-Jays: inferences from multistate models. Ecology, 2009, 90, 3180-3189.	1.5	41
84	Patterns and determinants of mammal species occurrence in India. Journal of Applied Ecology, 2009, 46, 1189-1200.	1.9	113
85	Dynamic multistate site occupancy models to evaluate hypotheses relevant to conservation of Golden Eagles in Denali National Park, Alaska. Biological Conservation, 2009, 142, 2726-2731.	1.9	63
86	Modeling co-occurrence of northern spotted and barred owls: Accounting for detection probability differences. Biological Conservation, 2009, 142, 2983-2989.	1.9	88
87	Inferences About Landbird Abundance from Count Data: Recent Advances and Future Directions. , 2009, , 201-235.		111
88	Perturbation analysis for patch occupancy dynamics. Ecology, 2009, 90, 10-16.	1.5	29
89	Structured decision making as a conceptual framework to identify thresholds for conservation and management. Ecological Applications, 2009, 19, 1079-1090.	1.8	224
90	Modeling species occurrence dynamics with multiple states and imperfect detection. Ecology, 2009, 90, 823-835.	1.5	230

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91	Chapter 3 Modeling Individual Animal Histories with Multistate Captureâ€“Recapture Models. Advances in Ecological Research, 2009, 41, 87-173.	1.4	277
92	Multiâ€scale occupancy estimation and modelling using multiple detection methods. Journal of Applied Ecology, 2008, 45, 1321-1329.	1.9	306
93	ESTIMATING SPECIES-SPECIFIC SURVIVAL AND MOVEMENT WHEN SPECIES IDENTIFICATION IS UNCERTAIN. Ecology, 2007, 88, 282-288.	1.5	25
94	OCCUPANCY ESTIMATION AND MODELING WITH MULTIPLE STATES AND STATE UNCERTAINTY. Ecology, 2007, 88, 1395-1400.	1.5	162
95	SAMPLING DESIGN TRADE-OFFS IN OCCUPANCY STUDIES WITH IMPERFECT DETECTION: EXAMPLES AND SOFTWARE. , 2007, 17, 281-290.		190
96	Adaptive harvest management of North American waterfowl populations: a brief history and future prospects. Journal Fur Ornithologie, 2007, 148, 343-349.	1.2	205
97	The Role of Local Populations within a Landscape Context: Defining and Classifying Sources and Sinks. American Naturalist, 2006, 167, 925-938.	1.0	201
98	Monitoring for conservation. Trends in Ecology and Evolution, 2006, 21, 668-673.	4.2	1,002
99	Status and Trends in Demography of Northern Spotted Owls, 1985â€“2003. Wildlife Monographs, 2006, 163, 1-48.	2.0	110
100	IMPROVING INFERENCES IN POPULATION STUDIES OF RARE SPECIES THAT ARE DETECTED IMPERFECTLY. Ecology, 2005, 86, 1101-1113.	1.5	328
101	Tigers and their prey: Predicting carnivore densities from prey abundance. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 4854-4858.	3.3	513
102	ESTIMATION OF SEX-SPECIFIC SURVIVAL FROM CAPTUREâ€“RECAPTURE DATA WHEN SEX IS NOT ALWAYS KNOWN. Ecology, 2004, 85, 3192-3201.	1.5	85
103	Investigating species co-occurrence patterns when species are detected imperfectly. Journal of Animal Ecology, 2004, 73, 546-555.	1.3	357
104	Population Dynamics of the California Spotted Owl (Strix occidentalis occidentalis): A Meta-Analysis. Ornithological Monographs, 2004, , 1-54.	1.3	84
105	ESTIMATING ABUNDANCE FROM REPEATED PRESENCEâ€“ABSENCE DATA OR POINT COUNTS. Ecology, 2003, 84, 777-790.	1.5	1,013
106	ADJUSTING MULTISTATE CAPTUREâ€“RECAPTURE MODELS FOR MISCLASSIFICATION BIAS: MANATEE BREEDING PROPORTIONS. Ecology, 2003, 84, 1058-1066.	1.5	72
107	ESTIMATING SITE OCCUPANCY, COLONIZATION, AND LOCAL EXTINCTION WHEN A SPECIES IS DETECTED IMPERFECTLY. Ecology, 2003, 84, 2200-2207.	1.5	1,274
108	Estimating State-Transition Probabilities for Unobservable States Using Capture-Recapture/Resighting Data. Ecology, 2002, 83, 3276.	1.5	131

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109	ESTIMATING SITE OCCUPANCY RATES WHEN DETECTION PROBABILITIES ARE LESS THAN ONE. Ecology, 2002, 83, 2248-2255.	1.5	3,271
110	A Removal Model for Estimating Detection Probabilities From Point-Count Surveys. Auk, 2002, 119, 414-425.	0.7	301
111	Large scale wildlife monitoring studies: statistical methods for design and analysis. Environmetrics, 2002, 13, 105-119.	0.6	512
112	On the estimation of species richness based on the accumulation of previously unrecorded species. Ecography, 2002, 25, 102-108.	2.1	61
113	Monitoring of biological diversity in space and time. Trends in Ecology and Evolution, 2001, 16, 446-453.	4.2	1,055
114	A Double-Observer Approach for Estimating Detection Probability and Abundance From Point Counts. Auk, 2000, 117, 393-408.	0.7	477
115	ESTIMATION OF CONTRIBUTIONS TO POPULATION GROWTH: A REVERSE-TIME CAPTUREâ€“RECAPTURE APPROACH. Ecology, 2000, 81, 3362-3376.	1.5	138
116	ARE ADULT NONBREEDERS PRUDENT PARENTS? THE KITTIWAKE MODEL. Ecology, 1998, 79, 2917-2930.	1.5	167
117	ESTIMATING TEMPORARY EMIGRATION USING CAPTUREâ€“RECAPTURE DATA WITH POLLOCKâ€™S ROBUST DESIGN. Ecology, 1997, 78, 563-578.	1.5	567
118	Managing North American Waterfowl in the Face of Uncertainty. Annual Review of Ecology, Evolution, and Systematics, 1995, 26, 177-199.	6.7	200
119	Estimating Annual Survival and Movement Rates of Adults within a Metapopulation of Roseate Terns. Ecology, 1995, 76, 2415-2428.	1.5	180
120	The use of multi-state capture-recapture models to address questions in evolutionary ecology. Journal of Applied Statistics, 1995, 22, 835-846.	0.6	216
121	Estimating Breeding Proportions and Testing Hypotheses about Costs of Reproduction with Capture-Recapture Data. Ecology, 1994, 75, 2052-2065.	1.5	191
122	The relationship between annual survival rate and migration distance in mallards: an examination of the time-allocation hypothesis for the evolution of migration. Canadian Journal of Zoology, 1992, 70, 2021-2027.	0.4	20
123	Estimates of Movement and Site Fidelity Using Mark-Resight Data of Wintering Canada Geese. Ecology, 1991, 72, 523-533.	1.5	418
124	Estimation of Recruitment from Immigration Versus In Situ Reproduction Using Pollock's Robust Design. Ecology, 1990, 71, 21-26.	1.5	81
125	Sources of variation in extinction rates, turnover, and diversity of marine invertebrate families during the Paleozoic. Paleobiology, 1986, 12, 421-432.	1.3	42
126	Testing for variation in taxonomic extinction probabilities: a suggested methodology and some results. Paleobiology, 1984, 10, 328-337.	1.3	22

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127	Estimating taxonomic diversity, extinction rates, and speciation rates from fossil data using capture-recapture models. Paleobiology, 1983, 9, 150-163.	1.3	81