Jason Matthiopoulos

List of Publications by Year in descending order

113 papers	6,913 citations	94433 37 h-index	66911 78 g-index
126 all docs	126 docs citations	126 times ranked	7149 citing authors

#	Article	IF	Citations
1	Integrated modelling of seabirdâ€habitat associations from multiâ€platform data: A review. Journal of Applied Ecology, 2022, 59, 909-920.	4.0	9
2	Widespread extinction debts and colonization credits in United States breeding bird communities. Nature Ecology and Evolution, 2022, 6, 324-331.	7.8	10
3	A protocol for a longitudinal, observational cohort study of infection and exposure to zoonotic and vector-borne diseases across a land-use gradient in Sabah, Malaysian Borneo: a socio-ecological systems approach. Wellcome Open Research, 2022, 7, 63.	1.8	0
4	Modelling and mapping how common guillemots balance their energy budgets over a full annual cycle. Functional Ecology, 2022, 36, 1612-1626.	3.6	2
5	Combining rapid antigen testing and syndromic surveillance improves community-based COVID-19 detection in a low-income country. Nature Communications, 2022, 13, .	12.8	7
6	Integration of markâ€“recapture and acoustic detections for unbiased population estimation in animal communities. Ecology, 2022, 103, .	3.2	4
7	Using Bayesian state-space models to understand the population dynamics of the dominant malaria vector, Anopheles funestus in rural Tanzania. Malaria Journal, 2022, 21, .	2.3	4
8	Interspecific competition between resident and wintering birds: experimental evidence and consequences of coexistence. Ecology, 2021, 102, e03208.	3.2	22
9	Fitness characteristics of the malaria vector Anopheles funestus during an attempted laboratory colonization. Malaria Journal, 2021, 20, 148.	2.3	23
10	Combining survey and remotely sensed environmental data to estimate the habitat associations, abundance and distribution of breeding thin-billed prions Pachyptila belcheri and Wilsonâ€™s storm-petrels Oceanites oceanicus on a South Atlantic tussac island. Polar Biology, 2021, 44, 809-821.	1.2	3
11	Improving assessments of dataâ€limited populations using lifeâ€history theory. Journal of Applied Ecology, 2021, 58, 1225-1236.	4.0	10
12	Solving the fourthâ€corner problem: forecasting ecosystem primary production from spatial multispecies traitâ€based models. Ecological Monographs, 2021, 91, e01454.	5.4	16
13	Individual-Level Memory Is Sufficient to Create Spatial Segregation among Neighboring Colonies of Central Place Foragers. American Naturalist, 2021, 198, E37-E52.	2.1	11
14	Insecticide resistance and behavioural adaptation as a response to long-lasting insecticidal net deployment in malaria vectors in the Cascades region of Burkina Faso. Scientific Reports, 2021, 11, 17569.	3.3	22
15	The summer distribution, habitat associations and abundance of seabirds in the sub-polar frontal zone of the Northwest Atlantic. Progress in Oceanography, 2021, 198, 102657.	3.2	5
16	Achieving explanatory depth and spatial breadth in infectious disease modelling: Integrating active and passive case surveillance. Statistical Methods in Medical Research, 2020, 29, 1273-1287.	1.5	12
17	Environmental Predictability as a Cause and Consequence of Animal Movement. Trends in Ecology and Evolution, 2020, 35, 163-174.	8.7	135
18	Inference in MCMC step selection models. Biometrics, 2020, 76, 438-447.	1.4	10

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19	Local rabies transmission and regional spatial coupling in European foxes. PLoS ONE, 2020, 15, e0220592.	2.5	6
20	Within Reach? Habitat Availability as a Function of Individual Mobility and Spatial Structuring. American Naturalist, 2020, 195, 1009-1026.	2.1	13
21	Distance sampling for epidemiology: an interactive tool for estimating under-reporting of cases from clinic data. International Journal of Health Geographics, 2020, 19, 16.	2.5	14
22	COVID-19 â€“ exploring the implications of long-term condition type and extent of multimorbidity on years of life lost: a modelling study. Wellcome Open Research, 2020, 5, 75.	1.8	46
23	COVID-19 â€“ exploring the implications of long-term condition type and extent of multimorbidity on years of life lost: a modelling study. Wellcome Open Research, 2020, 5, 75.	1.8	85
24	Linking resource selection and step selection models for habitat preferences in animals. Ecology, 2019, 100, e02452.	3.2	35
25	Changes in bodyweight and productivity in resource-restricted populations of red deer (Cervus) Tj ETQq1 1 0.784314 rgBT /Overlock 10 65, 1.	1.4	6
26	Use of stateâ€space modelling to identify ecological covariates associated with trends in pinniped demography. Aquatic Conservation: Marine and Freshwater Ecosystems, 2019, 29, 101-118.	2.0	1
27	Minimal overlap between areas of high conservation priority for endangered Galapagos pinnipeds and the conservation zone of the Galapagos Marine Reserve. Aquatic Conservation: Marine and Freshwater Ecosystems, 2019, 29, 115-126.	2.0	16
28	1980sâ€“2010s: The world's largest mangrove ecosystem is becoming homogeneous. Biological Conservation, 2019, 236, 79-91.	4.1	41
29	The sensitivity of seabird populations to densityâ€dependence, environmental stochasticity and anthropogenic mortality. Journal of Applied Ecology, 2019, 56, 2118-2130.	4.0	16
30	Optimizing spatial and seasonal deployment of vaccination campaigns to eliminate wildlife rabies. Philosophical Transactions of the Royal Society B: Biological Sciences, 2019, 374, 20180280.	4.0	19
31	Predicting population change from models based on habitat availability and utilization. Proceedings of the Royal Society B: Biological Sciences, 2019, 286, 20182911.	2.6	22
32	Modelling spatial biodiversity in the worldâ€™s largest mangrove ecosystemâ€”The Bangladesh Sundarbans: A baseline for conservation. Diversity and Distributions, 2019, 25, 729-742.	4.1	27
33	Integrating habitat and partial survey data to estimate the regional population of a globally declining seabird species, the sooty shearwater. Global Ecology and Conservation, 2019, 17, e00554.	2.1	8
34	Evaluation of mosquito electrocuting traps as a safe alternative to the human landing catch for measuring human exposure to malaria vectors in Burkina Faso. Malaria Journal, 2019, 18, 386.	2.3	21
35	Communal and efficient movement routines can develop spontaneously through public information use. Behavioral Ecology, 2019, 30, 408-416.	2.2	8
36	Global reconstruction of lifeâ€history strategies: A case study using tunas. Journal of Applied Ecology, 2019, 56, 855-865.	4.0	20

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37	Usedâ€habitat calibration plots: a new procedure for validating species distribution, resource selection, and stepâ€selection models. Ecography, 2018, 41, 737-752.	4.5	36
38	Mesocosm experiments reveal the impact of mosquito control measures on malaria vector life history and population dynamics. Scientific Reports, 2018, 8, 13949.	3.3	13
39	Nocturnal flight activity of northern gannets Morus bassanus and implications for modelling collision risk at offshore wind farms. Environmental Impact Assessment Review, 2018, 73, 1-6.	9.2	4
40	Overcoming the Data Crisis in Biodiversity Conservation. Trends in Ecology and Evolution, 2018, 33, 676-688.	8.7	85
41	Statistical Inference of The Mechanisms Driving Collective Cell Movement. Journal of the Royal Statistical Society Series C: Applied Statistics, 2017, 66, 869-890.	1.0	4
42	Variations in household microclimate affect outdoor-biting behaviour of malaria vectors. Wellcome Open Research, 2017, 2, 102.	1.8	39
43	Defining the scale of habitat availability for models of habitat selection. Ecology, 2016, 97, 1113-1122.	3.2	34
44	Delayed mortality effects cut the malaria transmission potential of insecticide-resistant mosquitoes. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 8975-8980.	7.1	89
45	Reâ€constructing nutritional history of Serengeti wildebeest from stable isotopes in tail hair: seasonal starvation patterns in an obligate grazer. Rapid Communications in Mass Spectrometry, 2016, 30, 1461-1468.	1.5	13
46	Unravelling the relative roles of topâ€down and bottomâ€up forces driving population change in an oceanic predator. Ecology, 2016, 97, 1919-1928.	3.2	34
47	Humanâ€“wildlife conflict, benefit sharing and the survival of lions in pastoralist communityâ€based conservancies. Journal of Applied Ecology, 2016, 53, 1195-1205.	4.0	42
48	Seabird diversity hotspot linked to ocean productivity in the Canary Current Large Marine Ecosystem. Biology Letters, 2016, 12, 20160024.	2.3	61
49	Are we failing to protect threatened mangroves in the Sundarbans world heritage ecosystem?. Scientific Reports, 2016, 6, 21234.	3.3	73
50	Inference of the drivers of collective movement in two cell types:Dictyosteliumand melanoma. Journal of the Royal Society Interface, 2016, 13, 20160695.	3.4	13
51	Avoidance of wind farms by harbour seals is limited to pile driving activities. Journal of Applied Ecology, 2016, 53, 1642-1652.	4.0	58
52	â€˜You shall not pass!â€™: quantifying barrier permeability and proximity avoidance by animals. Journal of Animal Ecology, 2016, 85, 43-53.	2.8	92
53	Drivers of intrapopulation variation in resource use in a generalist predator, the macaroni penguin. Marine Ecology - Progress Series, 2016, 548, 233-247.	1.9	18
54	The generalized data management and collection protocol for Conductivity-Temperature-Depth Satellite Relay Data Loggers. Animal Biotelemetry, 2015, 3, .	1.9	18

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55	Habitat selection of gray seals (Halichoerus grypus) in a marine protected area in France. Journal of Wildlife Management, 2015, 79, 1091-1100.	1.8	16
56	Intrinsic and extrinsic drivers of activity budgets in sympatric grey and harbour seals. Oikos, 2015, 124, 1462-1472.	2.7	54
57	Establishing the link between habitat selection and animal population dynamics. Ecological Monographs, 2015, 85, 413-436.	5.4	111
58	Dynamics of a morbillivirus at the domesticâ€“wildlife interface: Canine distemper virus in domestic dogs and lions. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 1464-1469.	7.1	128
59	Indirect effects of primary prey population dynamics on alternative prey. Theoretical Population Biology, 2015, 103, 44-59.	1.1	19
60	Efficient abstracting of dive profiles using a brokenâ€stick model. Methods in Ecology and Evolution, 2015, 6, 278-288.	5.2	22
61	Patterns of space use in sympatric marine colonial predators reveal scales of spatial partitioning. Marine Ecology - Progress Series, 2015, 534, 235-249.	1.9	43
62	Marine mammals trace anthropogenic structures at sea. Current Biology, 2014, 24, R638-R639.	3.9	104
63	Habitat-mediated population limitation in a colonial central-place forager: the sky is not the limit for the black-browed albatross. Proceedings of the Royal Society B: Biological Sciences, 2014, 281, 20132883.	2.6	24
64	Modelling prey consumption and switching by UK grey seals. ICES Journal of Marine Science, 2014, 71, 81-89.	2.5	31
65	State-space modelling reveals proximate causes of harbour seal population declines. Oecologia, 2014, 174, 151-162.	2.0	22
66	Survival in macaroni penguins and the relative importance of different drivers: individual traits, predation pressure and environmental variability. Journal of Animal Ecology, 2014, 83, 1057-1067.	2.8	51
67	The importance of developing modeling frameworks to inform conservation decisions: a response to Lonergan. Oecologia, 2014, 175, 1069-1071.	2.0	1
68	Spatial variation in maximum dive depth in gray seals in relation to foraging. Marine Mammal Science, 2014, 30, 923-938.	1.8	11
69	Combining individual animal movement and ancillary biotelemetry data to investigate populationâ€level activity budgets. Ecology, 2013, 94, 838-849.	3.2	82
70	Quantifying the effect of habitat availability on species distributions. Journal of Animal Ecology, 2013, 82, 1135-1145.	2.8	85
71	Uncovering the links between foraging and breeding regions in a highly mobile mammal. Journal of Applied Ecology, 2013, 50, 499-509.	4.0	27
72	Seabirds maintain offspring provisioning rate despite fluctuations in prey abundance: a multiâ€species functional response for guillemots in the <scp>N</scp>orth <scp>S</scp>ea. Journal of Applied Ecology, 2013, 50, 1071-1079.	4.0	19

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73	A general discreteâ€time modeling framework for animal movement using multistate random walks. Ecological Monographs, 2012, 82, 335-349.	5.4	222
74	Flexible and practical modeling of animal telemetry data: hidden Markov models and extensions. Ecology, 2012, 93, 2336-2342.	3.2	311
75	Modelling the impact of hen harrier management measures on a red grouse population in the UK. Oikos, 2012, 121, 1061-1072.	2.7	10
76	Comparative interpretation of count, presenceâ€“absence and point methods for species distribution models. Methods in Ecology and Evolution, 2012, 3, 177-187.	5.2	226
77	Age estimation, growth and age-related mortality of Mediterranean monk seals Monachus monachus. Endangered Species Research, 2012, 16, 149-163.	2.4	16
78	Harbour porpoise habitat preferences: robust spatio-temporal inferences from opportunistic data. Marine Ecology - Progress Series, 2012, 448, 155-170.	1.9	34
79	Generalized functional responses for species distributions. Ecology, 2011, 92, 583-589.	3.2	114
80	Habitat preference, accessibility, and competition limit the global distribution of breeding Black-browed Albatrosses. Ecological Monographs, 2011, 81, 141-167.	5.4	122
81	Hen harrier management: insights from demographic models fitted to population data. Journal of Applied Ecology, 2011, 48, 1187-1194.	4.0	9
82	Migration quantified: constructing models and linking them with data. , 2011, , 110-128.		4
83	Modelling sperm whale habitat preference: a novel approach combining transect and follow data. Marine Ecology - Progress Series, 2011, 436, 257-272.	1.9	123
84	Correlation and studies of habitat selection: problem, red herring or opportunity?. Philosophical Transactions of the Royal Society B: Biological Sciences, 2010, 365, 2233-2244.	4.0	228
85	The interpretation of habitat preference metrics under useâ€“availability designs. Philosophical Transactions of the Royal Society B: Biological Sciences, 2010, 365, 2245-2254.	4.0	297
86	Lost in space? Searching for directions in the spatial modelling of individuals, populations and species ranges. Biology Letters, 2010, 6, 575-578.	2.3	11
87	Building the bridge between animal movement and population dynamics. Philosophical Transactions of the Royal Society B: Biological Sciences, 2010, 365, 2289-2301.	4.0	401
88	The home-range concept: are traditional estimators still relevant with modern telemetry technology?. Philosophical Transactions of the Royal Society B: Biological Sciences, 2010, 365, 2221-2231.	4.0	389
89	The Functional Response of a Generalist Predator. PLoS ONE, 2010, 5, e10761.	2.5	84
90	Wind field and sex constrain the flight speeds of centralâ€place foraging albatrosses. Ecological Monographs, 2009, 79, 663-679.	5.4	69

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91	Fitting Models of Multiple Hypotheses to Partial Population Data: Investigating the Causes of Cycles in Red Grouse. American Naturalist, 2009, 174, 399-412.	2.1	24
92	Quantifying habitat use and preferences of pelagic seabirds using individual movement data: a review. Marine Ecology - Progress Series, 2009, 391, 165-182.	1.9	156
93	Getting beneath the surface of marine mammal â€“ fisheries competition. Mammal Review, 2008, 38, 167-188.	4.8	67
94	Stateâ€“space models of individual animal movement. Trends in Ecology and Evolution, 2008, 23, 87-94.	8.7	708
95	Estimating spaceâ€use and habitat preference from wildlife telemetry data. Ecography, 2008, 31, 140-160.	4.5	357
96	Data Sampling Options for Animal-Borne Video Cameras: Considerations Based on Deployments with Antarctic Fur Seals. Marine Technology Society Journal, 2008, 42, 65-75.	0.4	13
97	SENSITIVITY TO ASSUMPTIONS IN MODELS OF GENERALIST PREDATION ON A CYCLIC PREY. Ecology, 2007, 88, 2576-2586.	3.2	14
98	Influence of the physical environment and conspecific aggression on the spatial arrangement of breeding grey seals. Ecological Informatics, 2007, 2, 308-317.	5.2	6
99	PUPPING HABITAT USE IN THE MEDITERRANEAN MONK SEAL: A LONG-TERM STUDY. Marine Mammal Science, 2007, 23, 615-628.	1.8	29
100	SOCIALLY INDUCED RED GROUSE POPULATION CYCLES NEED ABRUPT TRANSITIONS BETWEEN TOLERANCE AND AGGRESSION. Ecology, 2005, 86, 1883-1893.	3.2	14
101	Metapopulation consequences of site fidelity for colonially breeding mammals and birds. Journal of Animal Ecology, 2005, 74, 716-727.	2.8	118
102	Using satellite telemetry and aerial counts to estimate space use by grey seals around the British Isles. Journal of Applied Ecology, 2004, 41, 476-491.	4.0	63
103	The use of space by animals as a function of accessibility and preference. Ecological Modelling, 2003, 159, 239-268.	2.5	136
104	Model-supervised kernel smoothing for the estimation of spatial usage. Oikos, 2003, 102, 367-377.	2.7	31
105	Territorial behaviour and population dynamics in red grouse Lagopus lagopus scoticus. II. Population models. Journal of Animal Ecology, 2003, 72, 1083-1096.	2.8	19
106	Territorial behaviour and population dynamics in red grouse Lagopus lagopus scoticus. I. Population experiments. Journal of Animal Ecology, 2003, 72, 1073-1082.	2.8	42
107	The kin facilitation hypothesis for red grouse population cycles: territorial dynamics of the family cluster. Ecological Modelling, 2002, 147, 291-307.	2.5	13
108	The kin-facilitation hypothesis for red grouse population cycles: territory sharing between relatives. Ecological Modelling, 2000, 127, 53-63.	2.5	17

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109	Models of Red Grouse Cycles. A Family Affair?. Oikos, 1998, 82, 574.	2.7	28
110	Areal coverage of the ocean floor by the deep-sea elasipodid holothurian Oneirophanta mutabilis: estimates using systematic, random and directional search strategy simulations. Deep-Sea Research Part I: Oceanographic Research Papers, 1997, 44, 477-486.	1.4	18
111	COVID-19 â€“ exploring the implications of long-term condition type and extent of multimorbidity on years of life lost: a modelling study. Wellcome Open Research, 0, 5, 75.	1.8	5
112	Sympatric Seals, Satellite Tracking and Protected Areas: Habitat-Based Distribution Estimates for Conservation and Management. Frontiers in Marine Science, 0, 9, .	2.5	4
113	Defining, estimating, and understanding the fundamental niches of complex animals in heterogeneous environments. Ecological Monographs, 0, , .	5.4	4