Ian D Jonsen

List of Publications by Year in descending order

75 papers	6,331 citations	117571 34 h-index	71651 76 g-index
80 all docs	80 docs citations	80 times ranked	6120 citing authors

#	Article	IF	Citations
1	Environmental drivers of population-level variation in the migratory and diving ontogeny of an Arctic top predator. Royal Society Open Science, 2022, 9, 211042.	1.1	5
2	Movements of southern elephant seals (Mirounga leonina) from Davis Base, Antarctica: combining population genetics and tracking data. Polar Biology, 2022, 45, 1163-1174.	0.5	3
3	Predator-derived bioregions in the Southern Ocean: Characteristics, drivers and representation in marine protected areas. Biological Conservation, 2022, 272, 109630.	1.9	5
4	Interâ€•and intrasex habitat partitioning in the highly dimorphic southern elephant seal. Ecology and Evolution, 2021, 11, 1620-1633.	0.8	14
5	A standardisation framework for bioâ€logging data to advance ecological research and conservation. Methods in Ecology and Evolution, 2021, 12, 996-1007.	2.2	39
6	Regional Variation in Winter Foraging Strategies by Weddell Seals in Eastern Antarctica and the Ross Sea. Frontiers in Marine Science, 2021, 8, .	1.2	7
7	Animal Borne Ocean Sensors â€“ AniBOS â€“ An Essential Component of the Global Ocean Observing System. Frontiers in Marine Science, 2021, 8, .	1.2	30
8	Costâ€effective mitigation strategies to reduce bycatch threats to cetaceans identified using returnâ€onâ€investment analysis. Conservation Biology, 2020, 34, 168-179.	2.4	10
9	A citizen science approach to longâ€term monitoring of humpback whales (<i>Megaptera) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T	0.9	20
10	A continuous-time state-space model for rapid quality control of argos locations from animal-borne tags. Movement Ecology, 2020, 8, 31.	1.3	66
11	Movements and behaviour of blue whales satellite tagged in an Australian upwelling system. Scientific Reports, 2020, 10, 21165.	1.6	25
12	A Water Mass Classification Approach to Tracking Variability in the East Australian Current. Frontiers in Marine Science, 2020, 7, .	1.2	11
13	Tracking of marine predators to protect Southern Ocean ecosystems. Nature, 2020, 580, 87-92.	13.7	156
14	The retrospective analysis of Antarctic tracking data project. Scientific Data, 2020, 7, 94.	2.4	27
15	Animal-Borne Telemetry: An Integral Component of the Ocean Observing Toolkit. Frontiers in Marine Science, 2019, 6, .	1.2	127
16	Dynamic Fineâ€Scale Sea Icescape Shapes Adult Emperor Penguin Foraging Habitat in East Antarctica. Geophysical Research Letters, 2019, 46, 11206-11218.	1.5	18
17	Atlantic salmon (Salmo salar) smolt and early post-smolt migration and survival inferred from multi-year and multi-stock acoustic telemetry studies in the Gulf of St. Lawrence, northwest Atlantic. ICES Journal of Marine Science, 2019, 76, 1107-1121.	1.2	41
18	Abundance estimates and habitat preferences of bottlenose dolphins reveal the importance of two gulfs in South Australia. Scientific Reports, 2019, 9, 8044.	1.6	9

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19	Finding mesopelagic prey in a changing Southern Ocean. Scientific Reports, 2019, 9, 19013.	1.6	20
20	Movement responses to environment: fast inference of variation among southern elephant seals with a mixed effects model. Ecology, 2019, 100, e02566.	1.5	144
21	Consequences of global shipping traffic for marine giants. Frontiers in Ecology and the Environment, 2019, 17, 39-47.	1.9	89
22	Predicting krill swarm characteristics important for marine predators foraging off East Antarctica. Ecography, 2018, 41, 996-1012.	2.1	25
23	Recent prey capture experience and dynamic habitat quality mediate short-term foraging site fidelity in a seabird. Proceedings of the Royal Society B: Biological Sciences, 2018, 285, 20180788.	1.2	30
24	Estimation and simulation of foraging trips in landâ€based marine predators. Ecology, 2017, 98, 1932-1944.	1.5	58
25	Hierarchical influences of prey distribution on patterns of prey capture by a marine predator. Functional Ecology, 2017, 31, 1750-1760.	1.7	35
26	An Economical Custom-Built Drone for Assessing Whale Health. Frontiers in Marine Science, 2017, 4, .	1.2	85
27	Spatiotemporal modelling of marine movement data using Template Model Builder (TMB). Marine Ecology - Progress Series, 2017, 565, 237-249.	0.9	48
28	High sea surface temperatures driven by a strengthening current reduce foraging success by penguins. Scientific Reports, 2016, 6, 22236.	1.6	42
29	Joint estimation over multiple individuals improves behavioural state inference from animal movement data. Scientific Reports, 2016, 6, 20625.	1.6	137
30	State-space modelsâ€™ dirty little secrets: even simple linear Gaussian models can have estimation problems. Scientific Reports, 2016, 6, 26677.	1.6	108
31	Putting the behavior into animal movement modeling: Improved activity budgets from use of ancillary tag information. Ecology and Evolution, 2016, 6, 8243-8255.	0.8	11
32	Key Questions in Marine Megafauna Movement Ecology. Trends in Ecology and Evolution, 2016, 31, 463-475.	4.2	397
33	Migrating humpback whales show no detectable response to whale alarms off Sydney, Australia. Endangered Species Research, 2016, 29, 201-209.	1.2	25
34	Tracking the fidelity of Atlantic bluefin tuna released in Canadian waters to the Gulf of Mexico spawning grounds. Canadian Journal of Fisheries and Aquatic Sciences, 2015, 72, 1700-1717.	0.7	46
35	Individual-level Variation and Higher-level Interpretations of Space Use in Wide-ranging Species: An Albatross Case Study of Sampling Effects. Frontiers in Marine Science, 2015, 2, .	1.2	24
36	A novel approach to quantifying the spatiotemporal behavior of instrumented grey seals used to sample the environment. Movement Ecology, 2015, 3, 20.	1.3	5

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37	Taking animal tracking to new depths: synthesizing horizontalâ€“vertical movement relationships for four marine predators. Ecology, 2015, 96, 417-427.	1.5	78
38	Return Customers: Foraging Site Fidelity and the Effect of Environmental Variability in Wide-Ranging Antarctic Fur Seals. PLoS ONE, 2015, 10, e0120888.	1.1	67
39	Probability of Detecting Marine Predator-Prey and Species Interactions Using Novel Hybrid Acoustic Transmitter-Receiver Tags. PLoS ONE, 2014, 9, e98117.	1.1	10
40	Transmitting speciesâ€interaction data from animalâ€borne transceivers through Service Argos using Bluetooth communication. Methods in Ecology and Evolution, 2014, 5, 864-871.	2.2	11
41	Supervised accelerometry analysis can identify prey capture by penguins at sea. Journal of Experimental Biology, 2014, 217, 4295-302.	0.8	56
42	Daily activity budgets reveal a quasi-flightless stage during non-breeding in Hawaiian albatrosses. Movement Ecology, 2014, 2, 23.	1.3	31
43	Behavioral attributes of turbine entrainment risk for adult resident fish revealed by acoustic telemetry and state-space modeling. Animal Biotelemetry, 2014, 2, 13.	0.8	25
44	Assessing Performance of Bayesian State-Space Models Fit to Argos Satellite Telemetry Locations Processed with Kalman Filtering. PLoS ONE, 2014, 9, e92277.	1.1	28
45	A multi-phase correlation search framework for mining non-taxonomic relations from unstructured text. Knowledge and Information Systems, 2014, 38, 641-667.	2.1	12
46	Foraging movements of Leach's stormâ€petrels Oceanodroma leucorhoa during incubation. Journal of Avian Biology, 2014, 45, 305-314.	0.6	45
47	Predator-borne acoustic transceivers and GPS tracking reveal spatiotemporal patterns of encounters with acoustically tagged fish in the open ocean. Marine Ecology - Progress Series, 2014, 501, 157-168.	0.9	33
48	Contrasting decadal trends in mortality between large and small individuals in skate populations in Atlantic Canada. Canadian Journal of Fisheries and Aquatic Sciences, 2013, 70, 74-89.	0.7	13
49	Predicted habitat shifts of Pacific top predators in a changing climate. Nature Climate Change, 2013, 3, 234-238.	8.1	390
50	Inferring Animal Densities from Tracking Data Using Markov Chains. PLoS ONE, 2013, 8, e60901.	1.1	15
51	Integrative modelling of animal movement: incorporating in situ habitat and behavioural information for a migratory marine predator. Proceedings of the Royal Society B: Biological Sciences, 2013, 280, 20122262.	1.2	91
52	North Atlantic Blue and Fin Whales Suspend Their Spring Migration to Forage in Middle Latitudes: Building up Energy Reserves for the Journey?. PLoS ONE, 2013, 8, e76507.	1.1	127
53	Estimating fishery-scale rates of discard mortality using conditional reasoning. Fisheries Research, 2012, 125-126, 318-330.	0.9	71
54	Incorrect Likelihood Methods Were Used to Infer Scaling Laws of Marine Predator Search Behaviour. PLoS ONE, 2012, 7, e45174.	1.1	44

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55	State-space methods for more completely capturing behavioral dynamics from animal tracks. Ecological Modelling, 2012, 235-236, 49-58.	1.2	71
56	Stateâ€space framework for estimating measurement error from doubleâ€tagging telemetry experiments. Methods in Ecology and Evolution, 2012, 3, 291-302.	2.2	57
57	Animal-Borne Acoustic Transceivers Reveal Patterns of at-Sea Associations in an Upper-Trophic Level Predator. PLoS ONE, 2012, 7, e48962.	1.1	31
58	Identifying nonproportionality of fishery-independent survey data to estimate population trends and assess recovery potential for cusk (Brosme brosme). Canadian Journal of Fisheries and Aquatic Sciences, 2011, 68, 413-425.	0.7	12
59	Tracking apex marine predator movements in a dynamic ocean. Nature, 2011, 475, 86-90.	13.7	1,038
60	Hierarchical State-Space Estimation of Leatherback Turtle Navigation Ability. PLoS ONE, 2010, 5, e14245.	1.1	20
61	Assessing threats to species at risk using stageâ€structured stateâ€“space models: mortality trends in skate populations. Ecological Applications, 2009, 19, 1347-1364.	1.8	29
62	A hierarchical Bayesian approach to multiâ€state markâ€“recapture: simulations and applications. Journal of Applied Ecology, 2009, 46, 610-620.	1.9	34
63	Sexâ€specific, seasonal foraging tactics of adult grey seals (Halichoerus grypus) revealed by stateâ€“space analysis. Ecology, 2009, 90, 3209-3221.	1.5	185
64	Influence of dispersal, stochasticity, and an Allee effect on the persistence of weed biocontrol introductions. Ecological Modelling, 2007, 203, 521-526.	1.2	24
65	Effect of matrix habitat on the spread of flea beetle introductions for biological control of leafy spurge. Landscape Ecology, 2007, 22, 883-896.	1.9	12
66	Identifying leatherback turtle foraging behaviour from satellite telemetry using a switching state-space model. Marine Ecology - Progress Series, 2007, 337, 255-264.	0.9	267
67	Robust hierarchical state-space models reveal diel variation in travel rates of migrating leatherback turtles. Journal of Animal Ecology, 2006, 75, 1046-1057.	1.3	140
68	How well can animals navigate? Estimating the circle of confusion from tracking data. Environmetrics, 2006, 17, 351-362.	0.6	12
69	ROBUST STATEâ€“SPACE MODELING OF ANIMAL MOVEMENT DATA. Ecology, 2005, 86, 2874-2880.	1.5	656
70	META-ANALYSIS OF ANIMAL MOVEMENT USING STATE-SPACE MODELS. Ecology, 2003, 84, 3055-3063.	1.5	223
71	The influence of matrix habitat on Aphthona flea beetle immigration to leafy spurge patches. Oecologia, 2001, 127, 287-294.	0.9	72
72	Fine-scale movement behaviors of calopterygid damselflies are influenced by landscape structure: an experimental manipulation. Oikos, 2000, 88, 553-562.	1.2	73

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73	Calopteryx Damselfly Dispersions Arising from Multiscale Responses to Landscape Structure. Ecology and Society, 2000, 4, .	0.9	24
74	Effect of Habitat Patch Characteristics on Abundance and Diversity of Insects in an Agricultural Landscape. Ecosystems, 1998, 1, 197-205.	1.6	78
75	Response of generalist and specialist insect herbivores to landscape spatial structure. Landscape Ecology, 1997, 12, 185-197.	1.9	179