

David Johnston

List of Publications by Year in descending order

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Version: 2024-02-01

97
papers

3,910
citations

109264

35
h-index

143943

57
g-index

105
all docs

105
docs citations

105
times ranked

3792
citing authors

#	ARTICLE	IF	CITATIONS
1	Responses of cetaceans to anthropogenic noise. <i>Mammal Review</i> , 2007, 37, 81-115.	2.2	473
2	Super-Aggregations of Krill and Humpback Whales in Wilhelmina Bay, Antarctic Peninsula. <i>PLoS ONE</i> , 2011, 6, e19173.	1.1	150
3	Automated detection and enumeration of marine wildlife using unmanned aircraft systems (UAS) and thermal imagery. <i>Scientific Reports</i> , 2017, 7, 45127.	1.6	149
4	Unoccupied Aircraft Systems in Marine Science and Conservation. <i>Annual Review of Marine Science</i> , 2019, 11, 439-463.	5.1	133
5	Effects of fine-scale oceanographic features on the distribution and movements of harbour porpoises <i>Phocoena phocoena</i> in the Bay of Fundy. <i>Marine Ecology - Progress Series</i> , 2005, 295, 279-293.	0.9	119
6	Why whales are big but not bigger: Physiological drivers and ecological limits in the age of ocean giants. <i>Science</i> , 2019, 366, 1367-1372.	6.0	109
7	Ecological niche modeling of sympatric krill predators around Marguerite Bay, Western Antarctic Peninsula. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2011, 58, 1729-1740.	0.6	98
8	A convolutional neural network for detecting sea turtles in drone imagery. <i>Methods in Ecology and Evolution</i> , 2019, 10, 345-355.	2.2	94
9	The potential of unmanned aerial systems for sea turtle research and conservation: a review and future directions. <i>Endangered Species Research</i> , 2018, 35, 81-100.	1.2	82
10	Baleen whale prey consumption based on high-resolution foraging measurements. <i>Nature</i> , 2021, 599, 85-90.	13.7	82
11	High pregnancy rates in humpback whales (<i>Megaptera novaeangliae</i>) around the Western Antarctic Peninsula, evidence of a rapidly growing population. <i>Royal Society Open Science</i> , 2018, 5, 180017.	1.1	78
12	Operational Protocols for the Use of Drones in Marine Animal Research. <i>Drones</i> , 2020, 4, 64.	2.7	78
13	Potential effects of sea level rise on the terrestrial habitats of endangered and endemic megafauna in the Northwestern Hawaiian Islands. <i>Endangered Species Research</i> , 2006, 2, 21-30.	1.2	78
14	Feeding rates and under-ice foraging strategies of the smallest lunge filter feeder, the Antarctic minke whale (<i>Balaenoptera bonaerensis</i>). <i>Journal of Experimental Biology</i> , 2014, 217, 2851-2854.	0.8	75
15	Integrating Drone Imagery into High Resolution Satellite Remote Sensing Assessments of Estuarine Environments. <i>Remote Sensing</i> , 2018, 10, 1257.	1.8	75
16	Drones and convolutional neural networks facilitate automated and accurate cetacean species identification and photogrammetry. <i>Methods in Ecology and Evolution</i> , 2019, 10, 1490-1500.	2.2	73
17	Predictive Modeling of Spinner Dolphin (<i>Stenella longirostris</i>) Resting Habitat in the Main Hawaiian Islands. <i>PLoS ONE</i> , 2012, 7, e43167.	1.1	72
18	Marine mammal conservation: over the horizon. <i>Endangered Species Research</i> , 2021, 44, 291-325.	1.2	71

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19	Temporal patterns in the acoustic signals of beaked whales at Cross Seamount. <i>Biology Letters</i> , 2008, 4, 208-211.	1.0	62
20	Abundance and Survival Rates of the Hawaiï™ Island Associated Spinner Dolphin (<i>Stenella longirostris</i>) Stock. <i>PLoS ONE</i> , 2014, 9, e86132.	1.1	60
21	Lifting baselines to address the consequences of conservation success. <i>Trends in Ecology and Evolution</i> , 2015, 30, 299-302.	4.2	57
22	Fin whales <i>Balaenoptera physalus</i> and minke whales <i>Balaenoptera acutorostrata</i> exploit a tidally driven island wake ecosystem in the Bay of Fundy. <i>Marine Ecology - Progress Series</i> , 2005, 305, 287-295.	0.9	56
23	Whatï™s the catch? Patterns of cetacean bycatch and depredation in Hawaiï™ based pelagic longline fisheries. <i>Marine Ecology</i> , 2011, 32, 380-391.	0.4	51
24	Identifying overlap between humpback whale foraging grounds and the Antarctic krill fishery. <i>Biological Conservation</i> , 2017, 210, 184-191.	1.9	51
25	The importance of spinner dolphin (<i>Stenella longirostris</i>) resting habitat: implications for management. <i>Journal of Applied Ecology</i> , 2015, 52, 621-630.	1.9	50
26	Embracing conservation success of recovering humpback whale populations: Evaluating the case for downlisting their conservation status in Australia. <i>Marine Policy</i> , 2016, 66, 137-141.	1.5	49
27	Meridional patterns in the deep scattering layers and top predator distribution in the central equatorial Pacific. <i>Fisheries Oceanography</i> , 2010, 19, 427-433.	0.9	48
28	Temporal and Regional Variability in the Skin Microbiome of Humpback Whales along the Western Antarctic Peninsula. <i>Applied and Environmental Microbiology</i> , 2018, 84, .	1.4	48
29	Deploying Fixed Wing Unoccupied Aerial Systems (UAS) for Coastal Morphology Assessment and Management. <i>Journal of Coastal Research</i> , 2018, 34, 704.	0.1	47
30	A standardized protocol for reporting methods when using drones for wildlife research. <i>Journal of Unmanned Vehicle Systems</i> , 2020, 8, 89-98.	0.6	46
31	Guidelines for the treatment of marine mammals in field research. <i>Marine Mammal Science</i> , 2009, 25, 725-736.	0.9	45
32	Multiple-stage decisions in a marine central-place forager. <i>Royal Society Open Science</i> , 2016, 3, 160043.	1.1	45
33	Scaling of swimming performance in baleen whales. <i>Journal of Experimental Biology</i> , 2019, 222, .	0.8	45
34	Quantifying Nearshore Sea Turtle Densities: Applications of Unmanned Aerial Systems for Population Assessments. <i>Scientific Reports</i> , 2017, 7, 17690.	1.6	43
35	Prevalence of influenza A virus in live-captured North Atlantic gray seals: a possible wild reservoir. <i>Emerging Microbes and Infections</i> , 2016, 5, 1-9.	3.0	41
36	Habitat partitioning and the influence of benthic topography and oceanography on the distribution of fin and minke whales in the Bay of Fundy, Canada. <i>Journal of the Marine Biological Association of the United Kingdom</i> , 2007, 87, 149-156.	0.4	38

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37	Modeling the spatial and temporal dynamics of foraging movements of humpback whales (<i>Megaptera</i>) Tj ETQq1 1 0.784314 38 BT /Over	1.3	38
38	Assessing the disturbance potential of small unoccupied aircraft systems (UAS) on gray seals (<i>Halichoerus grypus</i>) at breeding colonies in Nova Scotia, Canada. <i>PeerJ</i> , 2018, 6, e4467.	0.9	38
39	Using Ostrom's common-pool resource theory to build toward an integrated ecosystem-based sustainable cetacean tourism system in Hawai'i. <i>Journal of Sustainable Tourism</i> , 2015, 23, 536-556.	5.7	35
40	An acoustic survey of beaked whales at Cross Seamount near Hawaii. <i>Journal of the Acoustical Society of America</i> , 2009, 125, 624-627.	0.5	33
41	Evaluating monitoring methods for cetaceans. <i>Biological Conservation</i> , 2016, 201, 252-260.	1.9	32
42	Modeling Salt Marsh Vegetation Height Using Unoccupied Aircraft Systems and Structure from Motion. <i>Remote Sensing</i> , 2020, 12, 2333.	1.8	32
43	The Effects of Climate Change on Harp Seals (<i>Pagophilus groenlandicus</i>). <i>PLoS ONE</i> , 2012, 7, e29158.	1.1	31
44	Flowâ€field observations of a tidally driven island wake used by marine mammals in the Bay of Fundy, Canada. <i>Fisheries Oceanography</i> , 2007, 16, 422-435.	0.9	30
45	Chronic exposure of Hawaii Island spinner dolphins (<i>Stenella longirostris</i>) to human activities. <i>Royal Society Open Science</i> , 2018, 5, 171506.	1.1	30
46	Initial density estimates of humpback whales <i>Megaptera novaeangliae</i> in the inshore waters of the western Antarctic Peninsula during the late autumn. <i>Endangered Species Research</i> , 2012, 18, 63-71.	1.2	25
47	Google Haul Out: Earth Observation Imagery and Digital Aerial Surveys in Coastal Wildlife Management and Abundance Estimation. <i>BioScience</i> , 2017, 67, 760-768.	2.2	24
48	Seasonal Variation in the Spatial Distribution of Basking Sharks (<i>Cetorhinus maximus</i>) in the Lower Bay of Fundy, Canada. <i>PLoS ONE</i> , 2013, 8, e82074.	1.1	23
49	Temporally and spatially partitioned behaviours of spinner dolphins: implications for resilience to human disturbance. <i>Royal Society Open Science</i> , 2017, 4, 160626.	1.1	21
50	Unoccupied Aircraft Systems (UAS) for Marine Ecosystem Restoration. <i>Frontiers in Marine Science</i> , 2020, 7, .	1.2	21
51	Bayesian approach for predicting photogrammetric uncertainty in morphometric measurements derived from drones. <i>Marine Ecology - Progress Series</i> , 2021, 673, 193-210.	0.9	21
52	Prey density and depth affect the fine-scale foraging behavior of humpback whales <i>Megaptera novaeangliae</i> in Sitka Sound, Alaska, USA. <i>Marine Ecology - Progress Series</i> , 2016, 561, 245-260.	0.9	21
53	Rapid and Accurate Monitoring of Intertidal Oyster Reef Habitat Using Unoccupied Aircraft Systems and Structure from Motion. <i>Remote Sensing</i> , 2019, 11, 2394.	1.8	20
54	Lunge filter feeding biomechanics constrain rorqual foraging ecology across scale. <i>Journal of Experimental Biology</i> , 2020, 223, .	0.8	20

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55	Effects of the North Atlantic Oscillation on sea ice breeding habitats of harp seals (<i>Pagophilus</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 10	1.5	19
56	Differential effects of human activity on Hawaiian spinner dolphins in their resting bays. <i>Global Ecology and Conservation</i> , 2017, 10, 60-69.	1.0	18
57	An Evaluation of Management Objectives for Canada's Commercial Harp Seal Hunt, 1996-1998. <i>Conservation Biology</i> , 2000, 14, 729-737.	2.4	17
58	Identification of humpback whale <i>Megaptera novaeangliae</i> wintering habitat in the Northwestern Hawaiian Islands using spatial habitat modeling. <i>Endangered Species Research</i> , 0, , .	1.2	17
59	Deep learning for coastal resource conservation: automating detection of shellfish reefs. <i>Remote Sensing in Ecology and Conservation</i> , 2020, 6, 431-440.	2.2	17
60	Shark detection probability from aerial drone surveys within a temperate estuary. <i>Journal of Unmanned Vehicle Systems</i> , 2020, 8, 44-56.	0.6	16
61	Drones and deep learning produce accurate and efficient monitoring of large-scale seabird colonies. <i>Condor</i> , 2021, 123, .	0.7	16
62	Contrasting trends in gray seal (<i>Halichoerus grypus</i>) pup production throughout the increasing northwest Atlantic metapopulation. <i>Marine Mammal Science</i> , 2021, 37, 611-630.	0.9	16
63	Estimation of Intertidal Oyster Reef Density Using Spectral and Structural Characteristics Derived from Unoccupied Aircraft Systems and Structure from Motion Photogrammetry. <i>Remote Sensing</i> , 2022, 14, 2163.	1.8	16
64	Temporal stability and mixed-stock analyses of humpback whales (<i>Megaptera novaeangliae</i>) in the nearshore waters of the Western Antarctic Peninsula. <i>Polar Biology</i> , 2018, 41, 323-340.	0.5	14
65	Smartphones: Powerful Tools for Geoscience Education. <i>Eos</i> , 2013, 94, 433-434.	0.1	13
66	A Semi-Automated Method for Estimating AdÃ©lie Penguin Colony Abundance from a Fusion of Multispectral and Thermal Imagery Collected with Unoccupied Aircraft Systems. <i>Remote Sensing</i> , 2020, 12, 3692.	1.8	13
67	Temporally Generalizable Land Cover Classification: A Recurrent Convolutional Neural Network Unveils Major Coastal Change through Time. <i>Remote Sensing</i> , 2021, 13, 3953.	1.8	13
68	Bio-logging of marine migratory species in the law of the sea. <i>Marine Policy</i> , 2015, 51, 394-400.	1.5	12
69	Sympatry and resource partitioning between the largest krill consumers around the Antarctic Peninsula. <i>Marine Ecology - Progress Series</i> , 2021, 669, 1-16.	0.9	12
70	Comparing Uncertainty Associated With 1-, 2-, and 3D Aerial Photogrammetry-Based Body Condition Measurements of Baleen Whales. <i>Frontiers in Marine Science</i> , 2021, 8, .	1.2	12
71	Passive acoustic monitoring of coastally associated Hawaiian spinner dolphins, <i>Stenella longirostris</i> , ground-truthed through visual surveys. <i>Journal of the Acoustical Society of America</i> , 2016, 140, 206-215.	0.5	11
72	Natural and anthropogenic events influence the soundscapes of four bays on Hawaii Island. <i>Marine Pollution Bulletin</i> , 2017, 124, 9-20.	2.3	11

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73	Trends in Stranding and By-Catch Rates of Gray and Harbor Seals along the Northeastern Coast of the United States: Evidence of Divergence in the Abundance of Two Sympatric Phocid Species?. PLoS ONE, 2015, 10, e0131660.	1.1	11
74	First description of migratory behavior of humpback whales from an Antarctic feeding ground to a tropical calving ground. Animal Biotelemetry, 2021, 9, .	0.8	11
75	Geomorphic response of inlet barrier islands to storms. Geomorphology, 2019, 339, 127-140.	1.1	10
76	Scaling of maneuvering performance in baleen whales: larger whales outperform expectations. Journal of Experimental Biology, 2022, 225, .	0.8	10
77	Vigilance, resilience and failures of science and management. , 0, , 275-292.		9
78	Cashing in on Spinners: Revenue Estimates of Wild Dolphin-Swim Tourism in the Hawaiian Islands. Frontiers in Marine Science, 2020, 7, .	1.2	9
79	Daily and seasonal movements of Cape Cod gray seals vary with predation risk. Marine Ecology - Progress Series, 2020, 644, 215-228.	0.9	9
80	Drones address an observational blind spot for biological oceanography. Frontiers in Ecology and the Environment, 2022, 20, 413-421.	1.9	9
81	Towards a precautionary approach to managing Canada's commercial harp seal hunt. ICES Journal of Marine Science, 2010, 67, 316-320.	1.2	8
82	Factors Affecting Harp Seal (<i>Pagophilus groenlandicus</i>) Strandings in the Northwest Atlantic. PLoS ONE, 2013, 8, e68779.	1.1	8
83	Applying Unoccupied Aircraft Systems to Study Human Behavior in Marine Science and Conservation Programs. Frontiers in Marine Science, 2019, 6, .	1.2	8
84	The role of beach state and the timing of pre-storm surveys in determining the accuracy of storm impact assessments. Marine Geology, 2020, 425, 106201.	0.9	8
85	Tracking wildlife energy dynamics with unoccupied aircraft systems and three-dimensional photogrammetry. Methods in Ecology and Evolution, 2021, 12, 2458-2472.	2.2	8
86	Seasonal variability and individual consistency in gray seal (<i>Halichoerus grypus</i>) isotopic niches. Canadian Journal of Zoology, 2019, 97, 1071-1077.	0.4	7
87	RESONANCE AND DISSONANCE: SCIENCE, ETHICS, AND THE SONAR DEBATE. Marine Mammal Science, 2004, 20, 898-899.	0.9	6
88	A quantitative analysis of the response of short-finned pilot whales, <i>Globicephala macrorhynchus</i> , to biopsy sampling. Marine Mammal Science, 2014, 30, 819-826.	0.9	6
89	Using acoustics to prioritize management decisions to protect coastal dolphins: A case study using Hawaiian spinner dolphins. Marine Policy, 2017, 75, 84-90.	1.5	6
90	Accumulation of PBDEs in stranded harp (<i>Pagophilus groenlandicus</i>) and hooded seals (<i>Cystophora</i>)	1.1	6

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91	The scale of the whale: using video-tag data to evaluate sea-surface ice concentration from the perspective of individual Antarctic minke whales. <i>Animal Biotelemetry</i> , 2020, 8, .	0.8	6
92	Intra-seasonal variation in feeding rates and diel foraging behaviour in a seasonally fasting mammal, the humpback whale. <i>Royal Society Open Science</i> , 2022, 9, .	1.1	6
93	Multiple sightings of large groups of Arnoux's beaked whales (<i>Berardius arnouxii</i>) in the Gerlache Strait, Antarctica. <i>Marine Mammal Science</i> , 2009, 26, 246-250.	0.9	5
94	Robotic Vehicles Enable High-Resolution Light Pollution Sampling of Sea Turtle Nesting Beaches. <i>Frontiers in Marine Science</i> , 2018, 5, .	1.2	5
95	Elasmobranch Use of Nearshore Estuarine Habitats Responds to Fine-Scale, Intra-Seasonal Environmental Variation: Observing Coastal Shark Density in a Temperate Estuary Utilizing Unoccupied Aircraft Systems (UAS). <i>Drones</i> , 2020, 4, 74.	2.7	4
96	Vulci 3000. , 2020, , 13-41.		4
97	Acoustic response of Hawaiian spinner dolphins to human disturbance. <i>Proceedings of Meetings on Acoustics</i> , 2016, , .	0.3	2