Jeremy A Goldbogen

List of Publications by Year
in descending order

101 papers	4,581 citations	87843 38 h-index	118793 62 g-index
103 all docs	103 docs citations	103 times ranked	2875 citing authors

#	Article	IF	Citations
1	Evidence for Size-Selective Predation by Antarctic Humpback Whales. Frontiers in Marine Science, 2022, 9, .	1.2	7
2	Acoustic signature reveals blue whales tune lifeâ€history transitions to oceanographic conditions. Functional Ecology, 2022, 36, 882-895.	1.7	12
3	Scaling of maneuvering performance in baleen whales: larger whales outperform expectations. Journal of Experimental Biology, 2022, 225, .	0.8	10
4	The limits of convergence in the collective behavior of competing marine taxa. Ecology and Evolution, 2022, 12, e8747.	0.8	5
5	From individual responses to population effects: Integrating a decade of multidisciplinary research on blue whales and sonar. Animal Conservation, 2022, 25, 796-810.	1.5	11
6	An accelerometer-derived ballistocardiogram method for detecting heart rate in free-ranging marine mammals. Journal of Experimental Biology, 2022, 225, .	0.8	4
7	Intra-seasonal variation in feeding rates and diel foraging behaviour in a seasonally fasting mammal, the humpback whale. Royal Society Open Science, 2022, 9, .	1.1	6
8	Context-dependent variability in the predicted daily energetic costs of disturbance for blue whales. , 2021, 9, coaa137.		22
9	Predatorâ€scale spatial analysis of intraâ€patch prey distribution reveals the energetic drivers of rorqual whale superâ€group formation. Functional Ecology, 2021, 35, 894-908.	1.7	35
10	The largest of August Krogh animals: Physiology and biomechanics of the blue whale revisited. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2021, 254, 110894.	0.8	5
11	Microplastics and microfibers in surface waters of Monterey Bay National Marine Sanctuary, California. Marine Pollution Bulletin, 2021, 165, 112148.	2.3	16
12	Modelling shortâ€term energetic costs of sonar disturbance to cetaceans using highâ€resolution foraging data. Journal of Applied Ecology, 2021, 58, 1643-1657.	1.9	10
13	Biomechanically distinct filter-feeding behaviors distinguish sei whales as a functional intermediate and ecologically flexible species. Journal of Experimental Biology, 2021, 224, .	0.8	8
14	Too big to study? The biologging approach to understanding the behavioural energetics of ocean giants. Journal of Experimental Biology, 2021, 224, .	0.8	7
15	Scaling of oscillatory kinematics and Froude efficiency in baleen whales. Journal of Experimental Biology, 2021, 224, .	0.8	12
16	Tools for integrating inertial sensor data with video bio-loggers, including estimation of animal orientation, motion, and position. Animal Biotelemetry, 2021, 9, .	0.8	32
17	Rorqual Lunge-Feeding Energetics Near and Away from the Kinematic Threshold of Optimal Efficiency. Integrative Organismal Biology, 2021, 3, obab005.	0.9	10
18	Baleen whale prey consumption based on high-resolution foraging measurements. Nature, 2021, 599, 85-90.	13.7	82

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19	Social exploitation of extensive, ephemeral, environmentally controlled prey patches by supergroups of rorqual whales. Animal Behaviour, 2021, 182, 251-266.	0.8	16
20	The advantages of diving deep: Fin whales quadruple their energy intake when targeting deep krill patches. Functional Ecology, 2020, 34, 497-506.	1.7	20
21	Predator-informed looming stimulus experiments reveal how large filter feeding whales capture highly maneuverable forage fish. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 472-478.	3.3	42
22	Animal-Borne Metrics Enable Acoustic Detection of Blue Whale Migration. Current Biology, 2020, 30, 4773-4779.e3.	1.8	32
23	Blue whales. Current Biology, 2020, 30, R1399-R1400.	1.8	0
24	Remoras pick where they stick on blue whales. Journal of Experimental Biology, 2020, 223, .	0.8	14
25	Lunge filter feeding biomechanics constrain rorqual foraging ecology across scale. Journal of Experimental Biology, 2020, 223, .	0.8	20
26	A perfectly inelastic collision: Bulk prey engulfment by baleen whales and dynamical implications for the world's largest cetaceans. American Journal of Physics, 2020, 88, 851-863.	0.3	12
27	The scale of the whale: using video-tag data to evaluate sea-surface ice concentration from the perspective of individual Antarctic minke whales. Animal Biotelemetry, 2020, 8, .	0.8	6
28	Energetic and physical limitations on the breaching performance of large whales. ELife, 2020, 9, .	2.8	17
29	From a calfâ€™s perspective: humpback whale nursing behavior on two US feeding grounds. PeerJ, 2020, 8, e8538.	0.9	12
30	Drones and convolutional neural networks facilitate automated and accurate cetacean species identification and photogrammetry. Methods in Ecology and Evolution, 2019, 10, 1490-1500.	2.2	73
31	Lunge Feeding in Rorqual Whales. Physiology, 2019, 34, 409-418.	1.6	13
32	Differential Vulnerability to Ship Strikes Between Day and Night for Blue, Fin, and Humpback Whales Based on Dive and Movement Data From Medium Duration Archival Tags. Frontiers in Marine Science, 2019, 6, .	1.2	30
33	Scaling of swimming performance in baleen whales. Journal of Experimental Biology, 2019, 222, .	0.8	45
34	Anthropogenic disturbance in a changing environment: modelling lifetime reproductive success to predict the consequences of multiple stressors on a migratory population. Oikos, 2019, 128, 1340-1357.	1.2	41
35	Behavioral responses of individual blue whales (Balaenoptera musculus) to mid-frequency military sonar. Journal of Experimental Biology, 2019, 222, .	0.8	39
36	Memory and resource tracking drive blue whale migrations. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 5582-5587.	3.3	163

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37	Diving Behavior and Fine-Scale Kinematics of Free-Ranging Risso's Dolphins Foraging in Shallow and Deep-Water Habitats. Frontiers in Ecology and Evolution, 2019, 7, .	1.1	19
38	Extreme bradycardia and tachycardia in the worldâ€™s largest animal. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 25329-25332.	3.3	52
39	Why whales are big but not bigger: Physiological drivers and ecological limits in the age of ocean giants. Science, 2019, 366, 1367-1372.	6.0	109
40	Body Flexibility Enhances Maneuverability in the Worldâ€™s Largest Predator. Integrative and Comparative Biology, 2019, 59, 48-60.	0.9	19
41	Determining forward speed from accelerometer jiggle in aquatic environments. Journal of Experimental Biology, 2018, 221, .	0.8	45
42	Physiological constraints on marine mammal body size. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 3995-3997.	3.3	17
43	Filter Feeding. , 2018, , 363-368.		2
44	A Dynamic State Model of Migratory Behavior and Physiology to Assess the Consequences of Environmental Variation and Anthropogenic Disturbance on Marine Vertebrates. American Naturalist, 2018, 191, E40-E56.	1.0	56
45	Allometric scaling of morphology and engulfment capacity in rorqual whales. Journal of Morphology, 2018, 279, 1256-1268.	0.6	35
46	Filtration area scaling and evolution in mysticetes: trophic niche partitioning and the curious cases of sei and pygmy right whales. Biological Journal of the Linnean Society, 2018, 125, 264-279.	0.7	30
47	The evolution of foraging capacity and gigantism in cetaceans. Journal of Experimental Biology, 2018, 221, .	0.8	48
48	A multivariate mixed hidden Markov model for blue whale behaviour and responses to sound exposure. Annals of Applied Statistics, 2017, 11, .	0.5	79
49	Independent evolution of baleen whale gigantism linked to Plio-Pleistocene ocean dynamics. Proceedings of the Royal Society B: Biological Sciences, 2017, 284, 20170546.	1.2	140
50	Avoidance responses of minke whales to 1â€“4 kHz naval sonar. Marine Pollution Bulletin, 2017, 121, 60-68.	2.3	35
51	Kinematics of ram filter feeding and beat-glide swimming in the northern anchovy Engraulis mordax. Journal of Experimental Biology, 2017, 220, 2717-2725.	0.8	8
52	Resource partitioning facilitates coexistence in sympatric cetaceans in the California Current. Ecology and Evolution, 2017, 7, 9085-9097.	0.8	30
53	Using Digital Tags With Integrated Video and Inertial Sensors to Study Moving Morphology and Associated Function in Large Aquatic Vertebrates. Anatomical Record, 2017, 300, 1935-1941.	0.8	53
54	Context-dependent lateralized feeding strategies in blue whales. Current Biology, 2017, 27, R1206-R1208.	1.8	21

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55	Physical trade-offs shape the evolution of buoyancy control in sharks. Proceedings of the Royal Society B: Biological Sciences, 2017, 284, 20171345.	1.2	30
56	A hydrodynamically active flipper-stroke in humpback whales. Current Biology, 2017, 27, R636-R637.	1.8	16
57	How Baleen Whales Feed: The Biomechanics of Engulfment and Filtration. Annual Review of Marine Science, 2017, 9, 367-386.	5.1	135
58	Comparative Threeâ€Dimensional Morphology of Baleen: Crossâ€Sectional Profiles and Volume Measurements Using CT Images. Anatomical Record, 2017, 300, 1942-1952.	0.8	12
59	Structure and Function in the Lunge Feeding Apparatus: Mechanical Properties of the Fin Whale Mandible. Anatomical Record, 2017, 300, 1953-1962.	0.8	12
60	Discrimination of fast click series produced by tagged Risso's dolphins (Grampus griseus) for echolocation or communication. Journal of Experimental Biology, 2016, 219, 2898-2907.	0.8	43
61	Development of an automated method of detecting stereotyped feeding events in multisensor data from tagged rorqual whales. Ecology and Evolution, 2016, 6, 7522-7535.	0.8	20
62	Hydrodynamic properties of fin whale flippers predict maximum rolling performance. Journal of Experimental Biology, 2016, 219, 3315-3320.	0.8	44
63	Kinematic Diversity in Rorqual Whale Feeding Mechanisms. Current Biology, 2016, 26, 2617-2624.	1.8	88
64	Studying cetacean behaviour: new technological approaches and conservation applications. Animal Behaviour, 2016, 120, 235-244.	0.8	105
65	Multiple-stage decisions in a marine central-place forager. Royal Society Open Science, 2016, 3, 160043.	1.1	45
66	Preyâ€mediated behavioral responses of feeding blue whales in controlled sound exposure experiments. Ecological Applications, 2016, 26, 1075-1085.	1.8	44
67	Feeding performance by sympatric blue and fin whales exploiting a common prey resource. Marine Mammal Science, 2015, 31, 345-354.	0.9	46
68	Formal Comment on Schorr GS, Falcone EA, Moretti DJ, Andrews RD (2014) First Long-Term Behavioral Records from Cuvierâ€™s Beaked Whales (Ziphius cavirostris) Reveal Record-Breaking Dives. PLoS ONE 9(3): e92633. doi:10.1371/journal.pone.0092633. PLoS ONE, 2015, 10, e0142287.	1.1	35
69	Mechanical challenges to freshwater residency in sharks and rays. Journal of Experimental Biology, 2015, 218, 1099-1110.	0.8	20
70	Prey density and distribution drive the threeâ€dimensional foraging strategies of the largest filter feeder. Functional Ecology, 2015, 29, 951-961.	1.7	81
71	Stretchy nerves are an essential component of the extreme feeding mechanism of rorqual whales. Current Biology, 2015, 25, R360-R361.	1.8	29
72	Sound production and associated behavior of tagged fin whales (Balaenoptera physalus) in the Southern California Bight. Animal Biotelemetry, 2015, 3, .	0.8	68

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73	Using morphology to infer physiology: case studies on rorqual whales (Balaenopteridae). Canadian Journal of Zoology, 2015, 93, 687-700.	0.4	11
74	Using accelerometers to determine the calling behavior of tagged baleen whales. Journal of Experimental Biology, 2014, 217, 2449-55.	0.8	47
75	The device that revolutionized marine organismal biology. Journal of Experimental Biology, 2014, 217, 167-168.	0.8	6
76	Feeding rates and under-ice foraging strategies of the smallest lunge filter feeder, the Antarctic minke whale (Balaenoptera bonaerensis). Journal of Experimental Biology, 2014, 217, 2851-2854.	0.8	75
77	Acoustic and foraging behavior of a Baird's beaked whale, Berardius bairdii, exposed to simulated sonar. Scientific Reports, 2014, 4, 7031.	1.6	57
78	Blue whales respond to simulated mid-frequency military sonar. Proceedings of the Royal Society B: Biological Sciences, 2013, 280, 20130657.	1.2	166
79	Underwater acrobatics by the world's largest predator: 360Â° rolling manoeuvres by lunge-feeding blue whales. Biology Letters, 2013, 9, 20120986.	1.0	91
80	Mandible allometry in extant and fossil Balaenopteridae (Cetacea: Mammalia): the largest vertebrate skeletal element and its role in rorqual lunge feeding. Biological Journal of the Linnean Society, 2013, 108, 586-599.	0.7	42
81	Novel muscle and connective tissue design enables high extensibility and controls engulfment volume in lunge-feeding rorqual whales. Journal of Experimental Biology, 2013, 216, 2691-701.	0.8	40
82	Integrative Approaches to the Study of Baleen Whale Diving Behavior, Feeding Performance, and Foraging Ecology. BioScience, 2013, 63, 90-100.	2.2	188
83	Metabolic Expenditures of Lunge Feeding Rorquals Across Scale: Implications for the Evolution of Filter Feeding and the Limits to Maximum Body Size. PLoS ONE, 2012, 7, e44854.	1.1	74
84	Discovery of a sensory organ that coordinates lunge feeding in rorqual whales. Nature, 2012, 485, 498-501.	13.7	88
85	Scaling of lungeâ€feeding performance in rorqual whales: massâ€specific energy expenditure increases with body size and progressively limits diving capacity. Functional Ecology, 2012, 26, 216-226.	1.7	113
86	Muscle function and swimming in sharks. Journal of Fish Biology, 2012, 80, 1904-1939.	0.7	18
87	Mechanics, hydrodynamics and energetics of blue whale lunge feeding: efficiency dependence on krill density. Journal of Experimental Biology, 2011, 214, 131-146.	0.8	198
88	Exploring the effects of reductions in krill biomass in the Southern Ocean on blue whales using a state-dependent foraging model. Ecological Modelling, 2011, 222, 3366-3379.	1.2	38
89	Convergent Evolution Driven by Similar Feeding Mechanics in Balaenopterid Whales and Pelicans. Anatomical Record, 2011, 294, spc1-spc1.	0.8	0
90	Convergent Evolution Driven by Similar Feeding Mechanics in Balaenopterid Whales and Pelicans. Anatomical Record, 2011, 294, 1273-1282.	0.8	18

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91	Mechanics, hydrodynamics and energetics of blue whale lunge feeding: efficiency dependence on krill density. Journal of Experimental Biology, 2011, 214, 698-699.	0.8	15
92	Scaling of lunge feeding in rorqual whales: An integrated model of engulfment duration. Journal of Theoretical Biology, 2010, 267, 437-453.	0.8	38
93	Quantitative Computed Tomography of Humpback Whale (Megaptera novaeangliae) Mandibles: Mechanical Implications for Rorqual Lungeâ€Feeding. Anatomical Record, 2010, 293, 1240-1247.	0.8	17
94	Skull and buccal cavity allometry increase mass-specific engulfment capacity in fin whales. Proceedings of the Royal Society B: Biological Sciences, 2010, 277, 861-868.	1.2	66
95	Passive versus active engulfment: verdict from trajectory simulations of lunge-feeding fin whalesBalaenoptera physalus. Journal of the Royal Society Interface, 2009, 6, 1005-1025.	1.5	74
96	Anatomic Geometry of Sound Transmission and Reception in Cuvier's Beaked Whale (Ziphius) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 5	0.8	100
97	Foraging behavior of humpback whales: kinematic and respiratory patterns suggest a high cost for a lunge. Journal of Experimental Biology, 2008, 211, 3712-3719.	0.8	143
98	Evaluation of postmortem changes in tissue structure in the bottlenose dolphin (Tursiops) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 462	0.8	28
99	Kinematics of foraging dives and lunge-feeding in fin whales. Journal of Experimental Biology, 2006, 209, 1231-1244.	0.8	246
100	Fast-start muscle dynamics in the rainbow trout Oncorhynchus mykiss: phase relationship of white muscle shortening and body curvature. Journal of Experimental Biology, 2005, 208, 929-938.	0.8	22
101	Highâ€speed chases along the seafloor put Bryde's whales at risk of entanglement. Conservation Science and Practice, 0, , .	0.9	2