

# Markus Horning

## List of Publications by Year in descending order

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63  
papers

2,718  
citations

257450

24  
h-index

182427

51  
g-index

64  
all docs

64  
docs citations

64  
times ranked

2414  
citing authors

#	ARTICLE	IF	CITATIONS
1	Key Questions in Marine Megafauna Movement Ecology. Trends in Ecology and Evolution, 2016, 31, 463-475.	8.7	397
2	Sink or Swim: Strategies for Cost-Efficient Diving by Marine Mammals. Science, 2000, 288, 133-136.	12.6	374
3	Hunting Behavior of a Marine Mammal Beneath the Antarctic Fast Ice. Science, 1999, 283, 993-996.	12.6	279
4	The cost of foraging by a marine predator, the Weddell seal <i>Leptonychotes weddellii</i> : pricing by the stroke. Journal of Experimental Biology, 2004, 207, 973-982.	1.7	229
5	Ontogeny of Diving Behaviour in the Galapagos Fur Seal. Behaviour, 1997, 134, 1211-1257.	0.8	113
6	Lunar cycles in diel prey migrations exert a stronger effect on the diving of juveniles than adult Galapagos fur seals. Proceedings of the Royal Society B: Biological Sciences, 1999, 266, 1127-1132.	2.6	103
7	Classification of Weddell seal dives based on 3-dimensional movements and video-recorded observations. Marine Ecology - Progress Series, 2003, 264, 109-122.	1.9	93
8	DEVELOPMENT OF HEMOGLOBIN, HEMATOCRIT, AND ERYTHROCYTE VALUES IN GALAPAGOS FUR SEALS. Marine Mammal Science, 1997, 13, 100-113.	1.8	72
9	Diving into old age: muscular senescence in a large-bodied, long-lived mammal, the Weddell seal ( <i>Leptonychotes weddellii</i> ). Journal of Experimental Biology, 2009, 212, 790-796.	1.7	65
10	Penguin dispersal after fledging. Nature, 1996, 383, 397-397.	27.8	53
11	Temporary Captivity as a Research Tool: Comprehensive Study of Wild Pinnipeds Under Controlled Conditions. Aquatic Mammals, 2006, 32, 58-65.	0.7	49
12	Summing the strokes: energy economy in northern elephant seals during large-scale foraging migrations. Movement Ecology, 2015, 3, 22.	2.8	38
13	Linking marine predator diving behavior to local prey fields in contrasting habitats in a subarctic glacial fjord. Marine Biology, 2014, 161, 1361-1374.	1.5	37
14	Spatial variation of heat flux in Steller sea lions: evidence for consistent avenues of heat exchange along the body trunk. Journal of Experimental Marine Biology and Ecology, 2005, 315, 163-175.	1.5	36
15	Predation on an Upper Trophic Marine Predator, the Steller Sea Lion: Evaluating High Juvenile Mortality in a Density Dependent Conceptual Framework. PLoS ONE, 2012, 7, e30173.	2.5	36
16	ASSESSMENT OF ULTRASOUND IMAGING AS A NONINVASIVE MEASURE OF BLUBBER THICKNESS IN PINNIPEDS. Journal of Zoo and Wildlife Medicine, 2004, 35, 116-118.	0.6	35
17	Three-dimensional photogrammetry as a tool for estimating morphometrics and body mass of Steller sea lions ( <i>Eumetopias jubatus</i> ). Canadian Journal of Fisheries and Aquatic Sciences, 2007, 64, 296-303.	1.4	35
18	A test of hypotheses based on optimal foraging considerations for a diving mammal using a novel experimental approach. Canadian Journal of Zoology, 2003, 81, 1799-1807.	1.0	34

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19	Intraperitoneal implantation of life-long telemetry transmitters in otariids. BMC Veterinary Research, 2008, 4, 51.	1.9	33
20	Designing an Archival Satellite Transmitter for Life-Long Deployments on Oceanic Vertebrates: The Life History Transmitter. IEEE Journal of Oceanic Engineering, 2005, 30, 807-817.	3.8	32
21	Seasonal and Spatial Blubber Depth Changes in Captive Harbor Seals ( <i>Phoca vitulina</i> ) and Steller's Sea Lions ( <i>Eumetopias jubatus</i> ). Journal of Mammalogy, 2007, 88, 408-414.	1.3	30
22	Constraint lines and performance envelopes in behavioral physiology: the case of the aerobic dive limit. Frontiers in Physiology, 2012, 3, 381.	2.8	30
23	A novel approach to measuring heat flux in swimming animals. Journal of Experimental Marine Biology and Ecology, 2005, 315, 147-162.	1.5	28
24	Muscle aging and oxidative stress in wild-caught shrews. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2010, 155, 427-434.	1.6	27
25	Muscle senescence in short-lived wild mammals, the soricine shrews <i>Blarina brevicauda</i> and <i>Sorex palustris</i> . Journal of Experimental Zoology, 2009, 311A, 358-367.	1.2	26
26	In cold blood: evidence of Pacific sleeper shark ( <i>Somniosus pacificus</i> ) predation on Steller sea lions ( <i>Eumetopias jubatus</i> ) in the Gulf of Alaska. Fishery Bulletin, 2014, 112, 297-310.	0.2	25
27	Monitoring glucocorticoid response to rehabilitation and research procedures in California and Steller sea lions. Journal of Experimental Zoology, 2008, 309A, 73-82.	1.2	24
28	Spatially explicit detection of predation on individual pinnipeds from implanted post-mortem satellite data transmitters. Endangered Species Research, 2009, 10, 135-143.	2.4	24
29	Physiological and behavioral response to intra-abdominal transmitter implantation in Steller sea lions. Journal of Experimental Marine Biology and Ecology, 2007, 351, 283-293.	1.5	23
30	Surface temperature patterns in seals and sea lions: A validation of temporal and spatial consistency. Journal of Thermal Biology, 2010, 35, 435-440.	2.5	22
31	Best practice recommendations for the use of external telemetry devices on pinnipeds. Animal Biotelemetry, 2019, 7, .	1.9	22
32	Antarctic marine life under the McMurdo Ice Shelf at White Island: A link between nutrient influx and seal population. Polar Biology, 1984, 2, 229-231.	1.2	21
33	Heat loss in air of an Antarctic marine mammal, the Weddell seal. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2015, 185, 143-152.	1.5	21
34	Chemical immobilization of Weddell seals ( <i>Leptonychotes weddellii</i> ) by ketamine/midazolam combination. Veterinary Anaesthesia and Analgesia, 2010, 37, 123-131.	0.6	20
35	Behavioural responses of juvenile Steller sea lions to abdominal surgery: Developing an assessment of post-operative pain. Applied Animal Behaviour Science, 2009, 120, 201-207.	1.9	19
36	Effects of increased swimming costs on foraging behavior and efficiency of captive Steller sea lions: Evidence for behavioral plasticity in the recovery phase of dives. Journal of Experimental Marine Biology and Ecology, 2006, 333, 306-314.	1.5	18

#	ARTICLE	IF	CITATIONS
37	Best practice recommendations for the use of fully implanted telemetry devices in pinnipeds. <i>Animal Biotelemetry</i> , 2017, 5, .	1.9	18
38	Juvenile Steller sea lion dive behavior following temporary captivity. <i>Endangered Species Research</i> , 2008, 4, 195-203.	2.4	18
39	Health and condition in the adult Weddell seal of McMurdo Sound, Antarctica. <i>Zoology</i> , 2011, 114, 177-183.	1.2	15
40	An animal-borne active acoustic tag for minimally invasive behavioral response studies on marine mammals. <i>Animal Biotelemetry</i> , 2016, 4, .	1.9	14
41	Estimating total body heat dissipation in air and water from skin surface heat flux telemetry in Weddell seals. <i>Animal Biotelemetry</i> , 2015, 3, .	1.9	13
42	The Effect of Novel Research Activities on Long-term Survival of Temporarily Captive Steller Sea Lions ( <i>Eumetopias jubatus</i> ). <i>PLoS ONE</i> , 2015, 10, e0141948.	2.5	12
43	Crary bank: a deep foraging habitat for emperor penguins in the western Ross Sea. <i>Polar Biology</i> , 2020, 43, 801-811.	1.2	10
44	Aerobic dive limit does not decline in an aging pinniped. <i>Journal of Experimental Zoology</i> , 2011, 315A, 544-552.	1.2	9
45	Intraperitoneal implantation of life-long telemetry transmitters in three rehabilitated harbor seal pups. <i>BMC Veterinary Research</i> , 2017, 13, 139.	1.9	9
46	Energetics of breath-hold hunting: Modeling the effects of aging on foraging success in the Weddell seal. <i>Journal of Theoretical Biology</i> , 2010, 264, 673-682.	1.7	8
47	Beneath the surface: Profiling blubber depth in pinnipeds with infrared imaging. <i>Journal of Thermal Biology</i> , 2013, 38, 10-13.	2.5	8
48	Diving into the analysis of timeâ€“depth recorder and behavioural data records: A workshop summary. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2013, 88-89, 61-64.	1.4	7
49	Advances in thermal physiology of diving marine mammals: The dual role of peripheral perfusion. <i>Temperature</i> , 2022, 9, 46-66.	3.0	7
50	Juvenile Steller sea lion ( <i>Eumetopias jubatus</i> ) utilization distributions in the Gulf of Alaska. <i>Movement Ecology</i> , 2018, 6, 6.	2.8	6
51	A preliminary assessment of the impact of disturbance and handling on Weddell seals of McMurdo Sound, Antarctica. <i>Antarctic Science</i> , 2010, 22, 25.	0.9	5
52	Skin Microbial Flora and Effectiveness of Aseptic Technique for Deep Muscle Biopsies in Weddell Seals ( <i>Leptonychotes weddellii</i> ) in McMurdo Sound, Antarctica. <i>Journal of Wildlife Diseases</i> , 2010, 46, 655-658.	0.8	5
53	The effects of two analgesic regimes on behavior after abdominal surgery in Steller sea lions. <i>Veterinary Journal</i> , 2011, 190, 160-164.	1.7	5
54	Individual-based energetic model suggests bottom up mechanisms for the impact of coastal hypoxia on Pacific harbor seal ( <i>Phoca vitulina richardii</i> ) foraging behavior. <i>Journal of Theoretical Biology</i> , 2017, 416, 190-198.	1.7	5

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55	Space use of Pacific harbor seals ( <i>Phoca vitulina richardii</i> ) from two haulout locations along the Oregon coast. <i>PLoS ONE</i> , 2019, 14, e0219484.	2.5	4
56	Wanted dead or alive: characterizing likelihood of juvenile Steller sea lion predation from diving and space use patterns. <i>Endangered Species Research</i> , 2019, 40, 357-367.	2.4	4
57	Designing a Dependable and Fault-Tolerant Semiautonomous Distributed Control Data Collection Network With Opportunistic Hierarchy. <i>IEEE Journal of Oceanic Engineering</i> , 2007, 32, 400-407.	3.8	3
58	Physiological predictors of long-term survival in juvenile Steller sea lions ( <i>Eumetopias</i> )		
59	Improving emergence location estimates for Argos pop-up transmitters. <i>Animal Biotelemetry</i> , 2019, 7, .	1.9	2
60	An Integrative Method for Characterizing Marine Habitat Features Associated With Predation: A Case Study on Juvenile Steller Sea Lions ( <i>Eumetopias jubatus</i> ). <i>Frontiers in Marine Science</i> , 2020, 7, .	2.5	2
61	Visualizing Life in the Deep: A Creative Pipeline for Data-Driven Animations to Facilitate Marine Mammal Research, Outreach, and Conservation. , 2021, , .		2
62	Muscular apoptosis but not oxidative stress increases with old age in a long-lived diver, the Weddell seal. <i>Journal of Experimental Biology</i> , 2019, 222, .	1.7	1
63	Letter to the editor. <i>Australian Veterinary Journal</i> , 2008, 86, 113-113.	1.1	0