

Gerald L Kooyman

List of Publications by Citations

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99
papers

5,480
citations

42
h-index

73
g-index

108
ext. papers

6,003
ext. citations

5.1
avg, IF

5.29
L-index

#	Paper	IF	Citations
99	Aerobic and anaerobic metabolism during voluntary diving in Weddell seals: Evidence of preferred pathways from blood chemistry and behavior. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 1980 , 138, 335-346	2.2	360
98	The physiological basis of diving to depth: birds and mammals. <i>Annual Review of Physiology</i> , 1998 , 60, 19-32	23.1	342
97	Diverse Divers. <i>Zoophysiology</i> , 1989 ,		338
96	Key Questions in Marine Megafauna Movement Ecology. <i>Trends in Ecology and Evolution</i> , 2016 , 31, 463-475	15.9	292
95	Diving Behavior and Energetics During Foraging Cycles in King Penguins. <i>Ecological Monographs</i> , 1992 , 62, 143-163	9	203
94	Aerobic diving limits of immature Weddell seals. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 1983 , 151, 171-174	2.2	197
93	Metabolic rates of freely diving Weddell seals: correlations with oxygen stores, swim velocity and diving duration. <i>Journal of Experimental Biology</i> , 1992 , 165, 181-194	3	137
92	Determinants of the Aerobic Dive Limit of Weddell Seals: Analysis of Diving Metabolic Rates, Postdive End Tidal Po ₂ , and Blood and Muscle Oxygen Stores. <i>Physiological Zoology</i> , 1993 , 66, 732-749		136
91	Swimming Performance and Hydrodynamic Characteristics of Harbor Seals <i>Phoca vitulina</i> . <i>Physiological Zoology</i> , 1985 , 58, 576-589		128
90	Antarctic penguin response to habitat change as Earth's troposphere reaches 2°C above preindustrial levels. <i>Ecological Monographs</i> , 2010 , 80, 49-66	9	125
89	An emperor penguin population estimate: the first global, synoptic survey of a species from space. <i>PLoS ONE</i> , 2012 , 7, e33751	3.7	124
88	Oxygen consumption, thermoregulation, and the effect of fur oiling and washing on the sea otter, <i>Enhydra lutris</i> . <i>Canadian Journal of Zoology</i> , 1982 , 60, 2761-2767	1.5	124
87	Fur Seal Diving Behaviour in Relation to Vertical Distribution of Krill. <i>Journal of Animal Ecology</i> , 1985 , 54, 1	4.7	118
86	Respiratory Adaptations in Marine Mammals. <i>American Zoologist</i> , 1973 , 13, 457-468		116
85	Diving and foraging behavior of leatherback sea turtles (<i>Dermochelys coriacea</i>). <i>Canadian Journal of Zoology</i> , 1989 , 67, 2834-2840	1.5	110
84	Diving Behavior of Emperor Penguins Nurturing Chicks at Coulman Island, Antarctica. <i>Condor</i> , 1995 , 97, 536-549	2.1	107
83	Swimming Metabolism of Yearling and Adult Harbor Seals <i>Phoca vitulina</i> . <i>Physiological Zoology</i> , 1985 , 58, 590-596		97

82	Techniques used in measuring diving capacities of Weddell Seals. <i>Polar Record</i> , 1965 , 12, 391-394	0.5	94
81	Contribution of Specific Dynamic Action to Heat Balance and Thermoregulation in the Sea Otter <i>Enhydra lutris</i> . <i>Physiological Zoology</i> , 1984 , 57, 199-203		91
80	PHYSIOLOGY WITHOUT RESTRAINT IN DIVING MAMMALS. <i>Marine Mammal Science</i> , 1985 , 1, 166-178	1.9	91
79	Foraging behaviour of emperor penguins as a resource detector in winter and summer. <i>Nature</i> , 1992 , 360, 336-339	50.4	88
78	Diving Behavior of the Emperor Penguin, <i>Aptenodytes forsteri</i> . <i>Auk</i> , 1971 , 88, 775-795	2.1	85
77	Tracking of marine predators to protect Southern Ocean ecosystems. <i>Nature</i> , 2020 , 580, 87-92	50.4	83
76	Swimming velocities in otariids. <i>Canadian Journal of Zoology</i> , 1990 , 68, 2105-2112	1.5	83
75	Post-dive blood lactate concentrations in emperor penguins, <i>Aptenodytes forsteri</i> .. <i>Journal of Experimental Biology</i> , 1997 , 200, 1623-1626	3	81
74	Pulmonary Shunts in Harbor Seals and Sea Lions during Simulated Dives to Depth. <i>Physiological Zoology</i> , 1982 , 55, 105-111		68
73	Heart rates and swim speeds of emperor penguins diving under sea ice. <i>Journal of Experimental Biology</i> , 1992 , 165, 161-180	3	68
72	Blood Chemistry Regulation during Repetitive Diving in Weddell Seals. <i>Physiological Zoology</i> , 1988 , 61, 379-386		65
71	COMPARATIVE FEEDING ECOLOGY OF SPINNER DOLPHINS (<i>STENELLA LONGIROSTRIS</i>) AND FRASER'S DOLPHINS (<i>LAGENODELPHIS HOSEI</i>) IN THE SULU SEA. <i>Marine Mammal Science</i> , 2003 , 19, 1-19 ¹⁻⁹		57
70	Food of emperor penguins (<i>Aptenodytes forsteri</i>) in the western Ross Sea, Antarctica. <i>Marine Biology</i> , 1998 , 130, 335-344	2.5	55
69	Movements of whale sharks (<i>Rhincodon typus</i>) in South-east Asian waters as determined by satellite telemetry. <i>Journal of Zoology</i> , 2002 , 257, 111-115	2	53
68	Post-dive blood lactate concentrations in emperor penguins, <i>Aptenodytes forsteri</i> . <i>Journal of Experimental Biology</i> , 1997 , 200, 1623-6	3	51
67	Observations on Milk, Blood, and Urine Constituents of the Weddell Seal. <i>Physiological Zoology</i> , 1968 , 41, 187-194		50
66	Flow Properties of Expiration and Inspiration in a Trained Bottle-Nosed Porpoise. <i>Physiological Zoology</i> , 1981 , 54, 55-61		49
65	Heart rates and swim speeds of emperor penguins diving under sea ice. <i>Journal of Experimental Biology</i> , 1992 , 165, 161-80	3	49

64	The aerobic submersion limit of Baikal seals, <i>Phoca sibirica</i> . <i>Canadian Journal of Zoology</i> , 1997 , 75, 1323-1327	46
63	Estimating the relative abundance of emperor penguins at inaccessible colonies using satellite imagery. <i>Polar Biology</i> , 2007 , 30, 1565-1570	2 46
62	Effects of giant icebergs on two emperor penguin colonies in the Ross Sea, Antarctica. <i>Antarctic Science</i> , 2007 , 19, 31-38	1.7 46
61	Pattern and depth of dives in Northern elephant seals, <i>Mirounga angustirostris</i> . <i>Journal of Zoology</i> , 2009 , 208, 1-7	2 45
60	Stroke rates and diving air volumes of emperor penguins: implications for dive performance. <i>Journal of Experimental Biology</i> , 2011 , 214, 2854-63	3 42
59	Penguin dispersal after fledging. <i>Nature</i> , 1996 , 383, 397-397	50.4 42
58	Glycolytic Enzyme Activities in Tissues of Marine and Terrestrial Mammals. <i>Physiological Zoology</i> , 1981 , 54, 242-252	42
57	Water flux and estimated metabolism of free-ranging gentoo and macaroni penguins at South Georgia. <i>Polar Biology</i> , 1983 , 2, 41-46	2 38
56	Prey ingestion revealed by oesophagus and stomach temperature recordings in cormorants.. <i>Journal of Experimental Biology</i> , 1997 , 200, 149-154	3 38
55	Development of diving capacity in emperor penguins. <i>Journal of Experimental Biology</i> , 1999 , 202, 781-6	3 38
54	Emperor penguin oxygen consumption, heart rate and plasma lactate levels during graded swimming exercise.. <i>Journal of Experimental Biology</i> , 1994 , 195, 199-209	3 35
53	Emperor penguins breeding on iceshelves. <i>PLoS ONE</i> , 2014 , 9, e85285	3.7 35
52	Muscle temperature and swim velocity profiles during diving in a Weddell seal, <i>Leptonychotes weddellii</i> . <i>Journal of Experimental Biology</i> , 1993 , 183, 341-346	3 34
51	Behaviour and Physiology of Diving 1975 , 115-137	33
50	A Comparison between Day and Night Diving in the Weddell Seal. <i>Journal of Mammalogy</i> , 1975 , 56, 563-574	31
49	Cardiac Output in Swimming California Sea Lions, <i>Zalophus californianus</i> . <i>Physiological Zoology</i> , 1991 , 64, 1296-1306	30
48	Evolutionary and ecological aspects of some Antarctic and sub-Antarctic penguin distributions. <i>Oecologia</i> , 2002 , 130, 485-495	2.9 26
47	LENGTH, GIRTH AND MASS RELATIONSHIPS IN WEDDELL SEALS (LEPTONYCHOTES WEDDELLII). <i>Marine Mammal Science</i> , 1990 , 6, 75-77	1.9 24

46	Chapter 15. Synthesis and Conclusions 1986 , 220-264		24
45	Spout of the Gray Whale: Its Physical Characteristics. <i>Science</i> , 1975 , 190, 908-910	33.3	24
44	Breeding habitats of emperor penguins in the western Ross Sea. <i>Antarctic Science</i> , 1993 , 5, 143-148	1.7	22
43	An Analysis of Some Behavioral and Physiological Characteristics Related to Diving in the Weddell Seal. <i>Antarctic Research Series</i> , 2013 , 227-261		21
42	Chapter 10. Attendance and Diving Behavior of South American Fur Seals during El Niño in 1983 1986 , 153-167		21
41	Erythrocyte Analysis of Some Antarctic Fishes. <i>Copeia</i> , 1963 , 1963, 457	1.1	18
40	MYSTERIES OF ADAPTATION TO HYPOXIA AND PRESSURE IN MARINE MAMMALSThe Kenneth S. Norris Lifetime Achievement Award Lecture. <i>Marine Mammal Science</i> , 2006 , 22, 507-526	1.9	17
39	Chapter 7. Diving Behavior of Antarctic Fur Seals 1986 , 115-125		17
38	Blood oxygen depletion is independent of dive function in a deep diving vertebrate, the northern elephant seal. <i>PLoS ONE</i> , 2013 , 8, e83248	3.7	17
37	Chapter 4. Feeding and Diving Behavior of Northern Fur Seals 1986 , 61-78		17
36	Pressure and the diver. <i>Canadian Journal of Zoology</i> , 1988 , 66, 84-88	1.5	16
35	Emperor penguin oxygen consumption, heart rate and plasma lactate levels during graded swimming exercise. <i>Journal of Experimental Biology</i> , 1994 , 195, 199-209	3	16
34	Hidden keys to survival: the type, density, pattern and functional role of emperor penguin body feathers. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015 , 282, 20152033	4.4	15
33	Lipids of the Weddell Seal, <i>Leptonychotes Weddelli</i> . <i>Journal of Mammalogy</i> , 1967 , 48, 642	1.8	15
32	The retrospective analysis of Antarctic tracking data project. <i>Scientific Data</i> , 2020 , 7, 94	8.2	14
31	The initial journey of juvenile emperor penguins. <i>Aquatic Conservation: Marine and Freshwater Ecosystems</i> , 2007 , 17, S37-S43	2.6	14
30	Latitudinal distribution of penguins, seals and whales observed during a late autumn transect through the Ross Sea. <i>Antarctic Science</i> , 2004 , 16, 313-318	1.7	14
29	Chapter 9. Diving Behavior of South African Fur Seals 1986 , 142-152		14

28	Chapter 12. Diving Behavior of Galapagos Fur Seals 1986 , 186-195		14
27	Chapter 14. Diving Behavior of Galapagos Sea Lions 1986 , 209-219		13
26	Emperor penguin colony at Cape Washington, Antarctica. <i>Polar Record</i> , 1990 , 26, 103-108	0.5	12
25	Chapter 2. Methods of Dive Analysis 1986 , 28-40		12
24	The Crabeater Seal (<i>Lobodon carcinophagus</i>) in McMurdo Sound, Antarctica, and the Origin of Mummified Seals. <i>Journal of Mammalogy</i> , 1971 , 52, 175-180	1.8	12
23	HEART RATE AND ELECTROCARDIOGRAM CHARACTERISTICS OF A YOUNG CALIFORNIA GRAY WHALE (<i>ESCHRICHTIUS ROBUSTUS</i>) ¹ . <i>Marine Mammal Science</i> , 1999 , 15, 1198-1207	1.9	11
22	Cardiovascular depression and thermoregulatory disruption caused by pentothal/halothane anesthesia in the harbor seal, <i>Phoca vitulina</i> . <i>Journal of Wildlife Diseases</i> , 1981 , 17, 121-30	1.3	11
21	Diving Physiology 2009 , 327-332		10
20	Terminal airway embryology of the delphinid porpoises, <i>Stenella attenuata</i> and <i>S. longirostris</i> . <i>Journal of Morphology</i> , 1983 , 175, 65-72	1.6	10
19	Ross Sea Emperor Penguin Breeding Populations Estimated by Aerial Photography 1990 , 169-176		10
18	Identification of a Novel Adèle Penguin Circovirus at Cape Crozier (Ross Island, Antarctica). <i>Viruses</i> , 2019 , 11,	6.2	10
17	The History of Pinniped Studies in Antarctica. <i>Aquatic Mammals</i> , 2009 , 35, 523-556	3.1	9
16	MULTIPLE SIGHTINGS OF ARNOUX BEAKED WHALES ALONG THE VICTORIA LAND COAST. <i>Marine Mammal Science</i> , 1995 , 11, 247-250	1.9	7
15	Why do satellite transmitters on emperor penguins stop transmitting?. <i>Animal Biotelemetry</i> , 2015 , 3,	2.8	6
14	Histological development of the terminal airways in pinniped and sea otter lungs. <i>Canadian Journal of Zoology</i> , 1984 , 62, 92-96	1.5	6
13	Fatty Acid Composition of the Milk Fat of Some Desert Mammals. <i>Journal of Mammalogy</i> , 1966 , 47, 542-548		5
12	The aerobic dive limit: After 40 years, still rarely measured but commonly used. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2021 , 252, 110841	2.6	5
11	Crary bank: a deep foraging habitat for emperor penguins in the western Ross Sea. <i>Polar Biology</i> , 2020 , 43, 801-811	2	4

10	Habitat Use by Weddell Seals and Emperor Penguins Foraging in the Ross Sea, Antarctica. <i>American Zoologist</i> , 2001 , 41, 90-98		3
9	Behavior and Physiology of Diving in Emperor and King Penguins 1990 , 229-242		3
8	Diving Physiology 2018 , 267-271		2
7	Migration front of post-moult emperor penguins. <i>Polar Biology</i> , 2014 , 37, 435-439	2	2
6	An Unusual Occurrence of an Elephant Seal at Ross Island, Antarctica. <i>Journal of Mammalogy</i> , 1964 , 45, 314-315	1.8	1
5	Free-Ranging Energetics of Penguins 1984 , 245-253		0
4	First in the measure of energetics in a swimming tetrapod. <i>Journal of Experimental Biology</i> , 2010 , 213, 1609-10		3
3	The Adlie Penguin: Bellwether of Climate Change. <i>Condor</i> , 2003 , 105, 835-836		2.1
2	The Adlie Penguin: Bellwether of Climate Change. <i>Condor</i> , 2003 , 105, 835		2.1
1	Marine Mammal Diving Physiology 2019 , 548-555		