

# Gerald L Kooyman

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6641042/publications.pdf>

Version: 2024-02-01

107  
papers

7,020  
citations

57758

44  
h-index

60623

81  
g-index

108  
all docs

108  
docs citations

108  
times ranked

3704  
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	1.5	442
2	THE PHYSIOLOGICAL BASIS OF DIVING TO DEPTH: Birds and Mammals. <i>Annual Review of Physiology</i> , 1998, 60, 19-32.	13.1	408
3	Key Questions in Marine Megafauna Movement Ecology. <i>Trends in Ecology and Evolution</i> , 2016, 31, 463-475.	8.7	397
4	Diverse Divers. <i>Zoophysiology</i> , 1989, , .	0.2	376
5	Diving Behavior and Energetics During Foraging Cycles in King Penguins. <i>Ecological Monographs</i> , 1992, 62, 143-163.	5.4	248
6	Aerobic diving limits of immature Weddell seals. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 1983, 151, 171-174.	1.5	236
7	Fur Seal Diving Behaviour in Relation to Vertical Distribution of Krill. <i>Journal of Animal Ecology</i> , 1985, 54, 1.	2.8	184
8	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.	1.7	173
9	An Emperor Penguin Population Estimate: The First Global, Synoptic Survey of a Species from Space. <i>PLoS ONE</i> , 2012, 7, e33751.	2.5	163
10	Swimming Performance and Hydrodynamic Characteristics of Harbor Seals <i>Phoca vitulina</i> . <i>Physiological Zoology</i> , 1985, 58, 576-589.	1.5	160
11	Respiratory Adaptations in Marine Mammals. <i>American Zoologist</i> , 1973, 13, 457-468.	0.7	158
12	Tracking of marine predators to protect Southern Ocean ecosystems. <i>Nature</i> , 2020, 580, 87-92.	27.8	156
13	Determinants of the Aerobic Dive Limit of Weddell Seals: Analysis of Diving Metabolic Rates, Postdive End Tidal $P_{aO_2}$ 's, and Blood and Muscle Oxygen Stores. <i>Physiological Zoology</i> , 1993, 66, 732-749.	1.5	153
14	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.	1.0	147
15	Antarctic penguin response to habitat change as Earth's troposphere reaches 2°C above preindustrial levels. <i>Ecological Monographs</i> , 2010, 80, 49-66.	5.4	145
16	Diving Behavior of Emperor Penguins Nurturing Chicks at Coulman Island, Antarctica. <i>Condor</i> , 1995, 97, 536-549.	1.6	141
17	Diving and foraging behavior of leatherback sea turtles ( <i>Dermochelys coriacea</i> ). <i>Canadian Journal of Zoology</i> , 1989, 67, 2834-2840.	1.0	135
18	Swimming Metabolism of Yearling and Adult Harbor Seals <i>Phoca vitulina</i> . <i>Physiological Zoology</i> , 1985, 58, 590-596.	1.5	127

#	ARTICLE	IF	CITATIONS
19	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.	1.5	119
20	PHYSIOLOGY WITHOUT RESTRAINT IN DIVING MAMMALS. <i>Marine Mammal Science</i> , 1985, 1, 166-178.	1.8	119
21	Foraging behaviour of emperor penguins as a resource detector in winter and summer. <i>Nature</i> , 1992, 360, 336-339.	27.8	117
22	Techniques used in measuring diving capacities of Weddell Seals. <i>Polar Record</i> , 1965, 12, 391-394.	0.8	114
23	Diving Behavior of the Emperor Penguin, <i>Aptenodytes forsteri</i> . <i>Auk</i> , 1971, 88, 775-795.	1.4	103
24	Swimming velocities in otariids. <i>Canadian Journal of Zoology</i> , 1990, 68, 2105-2112.	1.0	100
25	Post-Dive Blood Lactate Concentrations in Emperor Penguins, <i>Aptenodytes Forsteri</i> . <i>Journal of Experimental Biology</i> , 1997, 200, 1623-1626.	1.7	95
26	Heart Rates and Swim Speeds of Emperor Penguins Diving Under Sea Ice. <i>Journal of Experimental Biology</i> , 1992, 165, 161-180.	1.7	89
27	Pulmonary Shunts in Harbor Seals and Sea Lions during Simulated Dives to Depth. <i>Physiological Zoology</i> , 1982, 55, 105-111.	1.5	87
28	Pattern and depth of dives in Northern elephant seals, <i>Mirounga angustirostris</i> . <i>Journal of Zoology</i> , 2009, 208, 1-7.	1.7	85
29	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.	1.8	80
30	Blood Chemistry Regulation during Repetitive Diving in Weddell Seals. <i>Physiological Zoology</i> , 1988, 61, 379-386.	1.5	74
31	Fur Seals (Maternal Strategies on Land and at Sea).. <i>Journal of Applied Ecology</i> , 1987, 24, 721.	4.0	69
32	Food of emperor penguins ( <i>Aptenodytes forsteri</i> ) in the western Ross Sea, Antarctica. <i>Marine Biology</i> , 1998, 130, 335-344.	1.5	66
33	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.	1.7	63
34	Observations on Milk, Blood, and Urine Constituents of the Weddell Seal. <i>Physiological Zoology</i> , 1968, 41, 187-194.	1.5	63
35	Post-dive blood lactate concentrations in emperor penguins, <i>Aptenodytes forsteri</i> . <i>Journal of Experimental Biology</i> , 1997, 200, 1623-6.	1.7	61
36	Flow Properties of Expiration and Inspiration in a Trained Bottle-Nosed Porpoise. <i>Physiological Zoology</i> , 1981, 54, 55-61.	1.5	58

#	ARTICLE	IF	CITATIONS
37	Effects of giant icebergs on two emperor penguin colonies in the Ross Sea, Antarctica. <i>Antarctic Science</i> , 2007, 19, 31-38.	0.9	58
38	Estimating the relative abundance of emperor penguins at inaccessible colonies using satellite imagery. <i>Polar Biology</i> , 2007, 30, 1565-1570.	1.2	57
39	Glycolytic Enzyme Activities in Tissues of Marine and Terrestrial Mammals. <i>Physiological Zoology</i> , 1981, 54, 242-252.	1.5	56
40	Heart rates and swim speeds of emperor penguins diving under sea ice. <i>Journal of Experimental Biology</i> , 1992, 165, 161-80.	1.7	56
41	Stroke rates and diving air volumes of emperor penguins: implications for dive performance. <i>Journal of Experimental Biology</i> , 2011, 214, 2854-2863.	1.7	55
42	Penguin dispersal after fledging. <i>Nature</i> , 1996, 383, 397-397.	27.8	53
43	An Analysis of Some Behavioral and Physiological Characteristics Related to Diving in the Weddell Seal. <i>Antarctic Research Series</i> , 2013, , 227-261.	0.2	53
44	The aerobic submersion limit of Baikal seals, <i>Phoca sibirica</i> . <i>Canadian Journal of Zoology</i> , 1997, 75, 1323-1327.	1.0	52
45	Behaviour and Physiology of Diving. , 1975, , 115-137.		50
46	Prey ingestion revealed by oesophagus and stomach temperature recordings in cormorants.. <i>Journal of Experimental Biology</i> , 1997, 200, 149-154.	1.7	48
47	Emperor Penguins Breeding on Iceshelves. <i>PLoS ONE</i> , 2014, 9, e85285.	2.5	48
48	A Comparison between Day and Night Diving in the Weddell Seal. <i>Journal of Mammalogy</i> , 1975, 56, 563-574.	1.3	43
49	Water flux and estimated metabolism of free-ranging gentoo and macaroni penguins at South Georgia. <i>Polar Biology</i> , 1983, 2, 41-46.	1.2	43
50	Emperor Penguin Oxygen Consumption, Heart Rate and Plasma Lactate Levels During Graded Swimming Exercise. <i>Journal of Experimental Biology</i> , 1994, 195, 199-209.	1.7	42
51	Development of diving capacity in emperor penguins. <i>Journal of Experimental Biology</i> , 1999, 202, 781-6.	1.7	41
52	Cardiac Output in Swimming California Sea Lions, <i>Zalophus californianus</i> . <i>Physiological Zoology</i> , 1991, 64, 1296-1306.	1.5	38
53	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.	1.7	36
54	Spout of the Gray Whale: Its Physical Characteristics. <i>Science</i> , 1975, 190, 908-910.	12.6	30

#	ARTICLE	IF	CITATIONS
55	LENGTH, GIRTH AND MASS RELATIONSHIPS IN WEDDELL SEALS (LEPTONYCHOTES WEDDELLII). Marine Mammal Science, 1990, 6, 75-77.	1.8	30
56	Breeding habitats of emperor penguins in the western Ross Sea. Antarctic Science, 1993, 5, 143-148.	0.9	28
57	Evolutionary and ecological aspects of some Antarctic and sub-Antarctic penguin distributions. Oecologia, 2002, 130, 485-495.	2.0	27
58	The retrospective analysis of Antarctic tracking data project. Scientific Data, 2020, 7, 94.	5.3	27
59	Chapter 15. Synthesis and Conclusions. , 1986, , 220-264.		26
60	Hidden keys to survival: the type, density, pattern and functional role of emperor penguin body feathers. Proceedings of the Royal Society B: Biological Sciences, 2015, 282, 20152033.	2.6	26
61	Chapter 10. Attendance and Diving Behavior of South American Fur Seals during El Niño in 1983. , 1986, , 153-167.		24
62	HEART RATE AND ELECTROCARDIOGRAM CHARACTERISTICS OF A YOUNG CALIFORNIA GRAY WHALE (ESCHRICHTIUS ROBUSTUS)1. Marine Mammal Science, 1999, 15, 1198-1207.	1.8	23
63	Blood Oxygen Depletion Is Independent of Dive Function in a Deep Diving Vertebrate, the Northern Elephant Seal. PLoS ONE, 2013, 8, e83248.	2.5	23
64	Chapter 4. Feeding and Diving Behavior of Northern Fur Seals. , 1986, , 61-78.		21
65	The initial journey of juvenile emperor penguins. Aquatic Conservation: Marine and Freshwater Ecosystems, 2007, 17, S37-S43.	2.0	20
66	Lipids of the Weddell Seal, Leptonychotes weddelli. Journal of Mammalogy, 1967, 48, 642.	1.3	19
67	Chapter 7. Diving Behavior of Antarctic Fur Seals. , 1986, , 115-125.		19
68	Pressure and the diver. Canadian Journal of Zoology, 1988, 66, 84-88.	1.0	19
69	MYSTERIES OF ADAPTATION TO HYPOXIA AND PRESSURE IN MARINE MAMMALS The Kenneth S. Norris Lifetime Achievement Award Lecture. Marine Mammal Science, 2006, 22, 507-526.	1.8	19
70	Erythrocyte Analysis of Some Antarctic Fishes. Copeia, 1963, 1963, 457.	1.3	18
71	Identification of a Novel Adenovirus Penguin Circovirus at Cape Crozier (Ross Island, Antarctica). Viruses, 2019, 11, 1088.	3.3	18
72	Emperor penguin oxygen consumption, heart rate and plasma lactate levels during graded swimming exercise. Journal of Experimental Biology, 1994, 195, 199-209.	1.7	18

#	ARTICLE	IF	CITATIONS
73	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.	1.3	17
74	Ross Sea Emperor Penguin Breeding Populations Estimated by Aerial Photography. , 1990, , 169-176.		16
75	Chapter 9. Diving Behavior of South African Fur Seals. , 1986, , 142-152.		15
76	Chapter 2. Methods of Dive Analysis. , 1986, , 28-40.		15
77	Chapter 12. Diving Behavior of Galapagos Fur Seals. , 1986, , 186-195.		15
78	Emperor penguin colony at Cape Washington, Antarctica. <i>Polar Record</i> , 1990, 26, 103-108.	0.8	15
79	Chapter 14. Diving Behavior of Galapagos Sea Lions. , 1986, , 209-219.		14
80	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.	0.9	14
81	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.	1.2	12
82	MULTIPLE SIGHTINGS OF ARNOUX BEAKED WHALES ALONG THE VICTORIA LAND COAST. <i>Marine Mammal Science</i> , 1995, 11, 247-250.	1.8	12
83	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, 121-130.	0.8	11
84	The aerobic dive limit: After 40 years, still rarely measured but commonly used. <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , 2021, 252, 110841.	1.8	11
85	Diving Physiology. , 2009, , 327-332.		10
86	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
87	The History of Pinniped Studies in Antarctica. <i>Aquatic Mammals</i> , 2009, 35, 523-556.	0.7	9
88	Why do satellite transmitters on emperor penguins stop transmitting?. <i>Animal Biotelemetry</i> , 2015, 3, .	1.9	8
89	Behavior and Physiology of Diving in Emperor and King Penguins. , 1990, , 229-242.		7
90	Fatty Acid Composition of the Milk Fat of Some Desert Mammals. <i>Journal of Mammalogy</i> , 1966, 47, 542-542.	1.3	6

#	ARTICLE	IF	CITATIONS
91	Histological development of the terminal airways in pinniped and sea otter lungs. Canadian Journal of Zoology, 1984, 62, 92-96.	1.0	6
92	Diving Physiology. , 2018, , 267-271.		5
93	Free-Ranging Energetics of Penguins. , 1984, , 245-253.		5
94	Habitat Use by Weddell Seals and Emperor Penguins Foraging in the Ross Sea, Antarctica. American Zoologist, 2001, 41, 90-98.	0.7	4
95	Migration front of post-moult emperor penguins. Polar Biology, 2014, 37, 435-439.	1.2	3
96	Night diving by some emperor penguins during the winter breeding period at Cape Washington. Journal of Experimental Biology, 2018, 221, .	1.7	2
97	An Unusual Occurrence of an Elephant Seal at Ross Island, Antarctica. Journal of Mammalogy, 1964, 45, 314-315.	1.3	1
98	The AdÃ©lie Penguin: Bellwether of Climate Change. Condor, 2003, 105, 835.	1.6	1
99	The AdÃ©lie Penguin: Bellwether of Climate Change. Condor, 2003, 105, 835-836.	1.6	1
100	Diving and Asphyxia. A Comparative Study of Animals and Man. Robert Elsner , Brett Gooden. Quarterly Review of Biology, 1984, 59, 491-492.	0.1	0
101	How do fur Seals Spend Their Lives?. Journal of Biogeography, 1987, 14, 190.	3.0	0
102	<b>Antarctic seals: research methods and techniques</b>, Edited by <i>R. M. Laws</i>. Cambridge University Press (1993). 390 pages. Â£50.00. ISBN 0 521 443024. Antarctic Science, 1994, 6, 426-427.	0.9	0
103	<b>Marine Mammals: Advances in Behavioural and Population Biology</b>, Edited by <i>I.L. Boyd</i>, Oxford University Press, Oxford, UK (1993). 404 pages. Â£55. ISBN 0 19 854 069 8.. Antarctic Science, 1994, 6, 542-542.	0.9	0
104	The Penguins Spheniscidae. Bird Families of the World, Volume 2. Tony D. Williams. Quarterly Review of Biology, 1996, 71, 133-134.	0.1	0
105	The Biology of the Southern Ocean. George A. Knox. Quarterly Review of Biology, 1996, 71, 140-141.	0.1	0
106	FIRST IN THE MEASURE OF ENERGETICS IN A SWIMMING TETRAPOD. Journal of Experimental Biology, 2010, 213, 1609-1610.	1.7	0
107	Marine Mammal Diving Physiology. , 2019, , 548-555.		0