

# Gerald L Kooyman

## List of Publications by Year in descending order

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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	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
2	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
3	Tracking of marine predators to protect Southern Ocean ecosystems. <i>Nature</i> , 2020, 580, 87-92.	27.8	156
4	The retrospective analysis of Antarctic tracking data project. <i>Scientific Data</i> , 2020, 7, 94.	5.3	27
5	Identification of a Novel Adenovirus Penguin Circovirus at Cape Crozier (Ross Island, Antarctica). <i>Viruses</i> , 2019, 11, 1088.	3.3	18
6	Marine Mammal Diving Physiology. , 2019, , 548-555.		0
7	Night diving by some emperor penguins during the winter breeding period at Cape Washington. <i>Journal of Experimental Biology</i> , 2018, 221, .	1.7	2
8	Diving Physiology. , 2018, , 267-271.		5
9	Key Questions in Marine Megafauna Movement Ecology. <i>Trends in Ecology and Evolution</i> , 2016, 31, 463-475.	8.7	397
10	Why do satellite transmitters on emperor penguins stop transmitting?. <i>Animal Biotelemetry</i> , 2015, 3, .	1.9	8
11	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.	2.6	26
12	Migration front of post-moult emperor penguins. <i>Polar Biology</i> , 2014, 37, 435-439.	1.2	3
13	Emperor Penguins Breeding on Iceshelves. <i>PLoS ONE</i> , 2014, 9, e85285.	2.5	48
14	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
15	Blood Oxygen Depletion Is Independent of Dive Function in a Deep Diving Vertebrate, the Northern Elephant Seal. <i>PLoS ONE</i> , 2013, 8, e83248.	2.5	23
16	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
17	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
18	FIRST IN THE MEASURE OF ENERGETICS IN A SWIMMING TETRAPOD. <i>Journal of Experimental Biology</i> , 2010, 213, 1609-1610.	1.7	0

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19	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
20	The History of Pinniped Studies in Antarctica. <i>Aquatic Mammals</i> , 2009, 35, 523-556.	0.7	9
21	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
22	Diving Physiology. , 2009, , 327-332.		10
23	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
24	The initial journey of juvenile emperor penguins. <i>Aquatic Conservation: Marine and Freshwater Ecosystems</i> , 2007, 17, S37-S43.	2.0	20
25	Estimating the relative abundance of emperor penguins at inaccessible colonies using satellite imagery. <i>Polar Biology</i> , 2007, 30, 1565-1570.	1.2	57
26	MYSTERIES OF ADAPTATION TO HYPOXIA AND PRESSURE IN MARINE MAMMALS The Kenneth S. Norris Lifetime Achievement Award Lecture. <i>Marine Mammal Science</i> , 2006, 22, 507-526.	1.8	19
27	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
28	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
29	The AdÃ©lie Penguin: Bellwether of Climate Change. <i>Condor</i> , 2003, 105, 835.	1.6	1
30	The AdÃ©lie Penguin: Bellwether of Climate Change. <i>Condor</i> , 2003, 105, 835-836.	1.6	1
31	Evolutionary and ecological aspects of some Antarctic and sub-Antarctic penguin distributions. <i>Oecologia</i> , 2002, 130, 485-495.	2.0	27
32	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
33	Habitat Use by Weddell Seals and Emperor Penguins Foraging in the Ross Sea, Antarctica. <i>American Zoologist</i> , 2001, 41, 90-98.	0.7	4
34	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.	1.8	23
35	Development of diving capacity in emperor penguins. <i>Journal of Experimental Biology</i> , 1999, 202, 781-6.	1.7	41
36	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

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37	THE PHYSIOLOGICAL BASIS OF DIVING TO DEPTH: Birds and Mammals. Annual Review of Physiology, 1998, 60, 19-32.	13.1	408
38	The aerobic submersion limit of Baikal seals, <i>Phoca sibirica</i> . Canadian Journal of Zoology, 1997, 75, 1323-1327.	1.0	52
39	Prey ingestion revealed by oesophagus and stomach temperature recordings in cormorants.. Journal of Experimental Biology, 1997, 200, 149-154.	1.7	48
40	Post-Dive Blood Lactate Concentrations in Emperor Penguins, <i>Aptenodytes Forsteri</i> . Journal of Experimental Biology, 1997, 200, 1623-1626.	1.7	95
41	Post-dive blood lactate concentrations in emperor penguins, <i>Aptenodytes forsteri</i> . Journal of Experimental Biology, 1997, 200, 1623-6.	1.7	61
42	The Penguins Spheniscidae. Bird Families of the World, Volume 2. Tony D. Williams. Quarterly Review of Biology, 1996, 71, 133-134.	0.1	0
43	The Biology of the Southern Ocean. George A. Knox. Quarterly Review of Biology, 1996, 71, 140-141.	0.1	0
44	Penguin dispersal after fledging. Nature, 1996, 383, 397-397.	27.8	53
45	Diving Behavior of Emperor Penguins Nurturing Chicks at Coulman Island, Antarctica. Condor, 1995, 97, 536-549.	1.6	141
46	MULTIPLE SIGHTINGS OF ARNOUX BEAKED WHALES ALONG THE VICTORIA LAND COAST. Marine Mammal Science, 1995, 11, 247-250.	1.8	12
47	<b>Antarctic seals: research methods and techniques</b> , Edited by <i>R. M. Laws</i> . Cambridge University Press (1993). 390 pages. £50.00. ISBN 0 521 443024. Antarctic Science, 1994, 6, 426-427.	0.9	0
48	<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. £55. ISBN 0 19 854 069 8.. Antarctic Science, 1994, 6, 542-542.	0.9	0
49	Emperor Penguin Oxygen Consumption, Heart Rate and Plasma Lactate Levels During Graded Swimming Exercise. Journal of Experimental Biology, 1994, 195, 199-209.	1.7	42
50	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
51	Breeding habitats of emperor penguins in the western Ross Sea. Antarctic Science, 1993, 5, 143-148.	0.9	28
52	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. Physiological Zoology, 1993, 66, 732-749.	1.5	153
53	Muscle Temperature and Swim Velocity Profiles During Diving in a Weddell Seal, <i>Leptonychotes Weddellii</i> . Journal of Experimental Biology, 1993, 183, 341-346.	1.7	36
54	Diving Behavior and Energetics During Foraging Cycles in King Penguins. Ecological Monographs, 1992, 62, 143-163.	5.4	248

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55	Foraging behaviour of emperor penguins as a resource detector in winter and summer. <i>Nature</i> , 1992, 360, 336-339.	27.8	117
56	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
57	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
58	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
59	Cardiac Output in Swimming California Sea Lions, <i>Zalophus californianus</i> . <i>Physiological Zoology</i> , 1991, 64, 1296-1306.	1.5	38
60	LENGTH, GIRTH AND MASS RELATIONSHIPS IN WEDDELL SEALS ( <i>LEPTONYCHOTES WEDDELLII</i> ). <i>Marine Mammal Science</i> , 1990, 6, 75-77.	1.8	30
61	Swimming velocities in otariids. <i>Canadian Journal of Zoology</i> , 1990, 68, 2105-2112.	1.0	100
62	Emperor penguin colony at Cape Washington, Antarctica. <i>Polar Record</i> , 1990, 26, 103-108.	0.8	15
63	Ross Sea Emperor Penguin Breeding Populations Estimated by Aerial Photography. , 1990, , 169-176.		16
64	Behavior and Physiology of Diving in Emperor and King Penguins. , 1990, , 229-242.		7
65	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
66	Diverse Divers. <i>Zoophysiology</i> , 1989, , .	0.2	376
67	Pressure and the diver. <i>Canadian Journal of Zoology</i> , 1988, 66, 84-88.	1.0	19
68	Blood Chemistry Regulation during Repetitive Diving in Weddell Seals. <i>Physiological Zoology</i> , 1988, 61, 379-386.	1.5	74
69	Fur Seals (Maternal Strategies on Land and at Sea).. <i>Journal of Applied Ecology</i> , 1987, 24, 721.	4.0	69
70	How do fur Seals Spend Their Lives?. <i>Journal of Biogeography</i> , 1987, 14, 190.	3.0	0
71	Chapter 7. Diving Behavior of Antarctic Fur Seals. , 1986, , 115-125.		19
72	Chapter 9. Diving Behavior of South African Fur Seals. , 1986, , 142-152.		15

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73	Chapter 2. Methods of Dive Analysis. , 1986, , 28-40.		15
74	Chapter 14. Diving Behavior of Galapagos Sea Lions. , 1986, , 209-219.		14
75	Chapter 10. Attendance and Diving Behavior of South American Fur Seals during El Niño in 1983. , 1986, , 153-167.		24
76	Chapter 12. Diving Behavior of Galapagos Fur Seals. , 1986, , 186-195.		15
77	Chapter 15. Synthesis and Conclusions. , 1986, , 220-264.		26
78	Chapter 4. Feeding and Diving Behavior of Northern Fur Seals. , 1986, , 61-78.		21
79	Swimming Performance and Hydrodynamic Characteristics of Harbor Seals <i>Phoca vitulina</i> . <i>Physiological Zoology</i> , 1985, 58, 576-589.	1.5	160
80	Swimming Metabolism of Yearling and Adult Harbor Seals <i>Phoca vitulina</i> . <i>Physiological Zoology</i> , 1985, 58, 590-596.	1.5	127
81	PHYSIOLOGY WITHOUT RESTRAINT IN DIVING MAMMALS. <i>Marine Mammal Science</i> , 1985, 1, 166-178.	1.8	119
82	Fur Seal Diving Behaviour in Relation to Vertical Distribution of Krill. <i>Journal of Animal Ecology</i> , 1985, 54, 1.	2.8	184
83	Histological development of the terminal airways in pinniped and sea otter lungs. <i>Canadian Journal of Zoology</i> , 1984, 62, 92-96.	1.0	6
84	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
85	Diving and Asphyxia. A Comparative Study of Animals and Man. Robert Elsner , Brett Gooden. <i>Quarterly Review of Biology</i> , 1984, 59, 491-492.	0.1	0
86	Free-Ranging Energetics of Penguins. , 1984, , 245-253.		5
87	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
88	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
89	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
90	Pulmonary Shunts in Harbor Seals and Sea Lions during Simulated Dives to Depth. <i>Physiological Zoology</i> , 1982, 55, 105-111.	1.5	87

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91	Oxygen consumption, thermoregulation, and the effect of fur oiling and washing on the sea otter, <i>Enhydra lutris</i> . Canadian Journal of Zoology, 1982, 60, 2761-2767.	1.0	147
92	Flow Properties of Expiration and Inspiration in a Trained Bottle-Nosed Porpoise. Physiological Zoology, 1981, 54, 55-61.	1.5	58
93	Glycolytic Enzyme Activities in Tissues of Marine and Terrestrial Mammals. Physiological Zoology, 1981, 54, 242-252.	1.5	56
94	CARDIOVASCULAR DEPRESSION AND THERMOREGULATORY DISRUPTION CAUSED BY PENTOTHAL/HALOTHANE ANESTHESIA IN THE HARBOR SEAL, <i>Phoca vitulina</i> . Journal of Wildlife Diseases, 1981, 17, 121-130.	0.8	11
95	Aerobic and anaerobic metabolism during voluntary diving in Weddell seals: Evidence of preferred pathways from blood chemistry and behavior. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 1980, 138, 335-346.	1.5	442
96	A Comparison between Day and Night Diving in the Weddell Seal. Journal of Mammalogy, 1975, 56, 563-574.	1.3	43
97	Spout of the Gray Whale: Its Physical Characteristics. Science, 1975, 190, 908-910.	12.6	30
98	Behaviour and Physiology of Diving. , 1975, , 115-137.		50
99	Respiratory Adaptations in Marine Mammals. American Zoologist, 1973, 13, 457-468.	0.7	158
100	The Crabeater Seal ( <i>Lobodon carcinophagus</i> ) in McMurdo Sound, Antarctica, and the Origin of Mummified Seals. Journal of Mammalogy, 1971, 52, 175-180.	1.3	17
101	Diving Behavior of the Emperor Penguin, <i>Aptenodytes forsteri</i> . Auk, 1971, 88, 775-795.	1.4	103
102	Observations on Milk, Blood, and Urine Constituents of the Weddell Seal. Physiological Zoology, 1968, 41, 187-194.	1.5	63
103	Lipids of the Weddell Seal, <i>Leptonychotes weddelli</i> . Journal of Mammalogy, 1967, 48, 642.	1.3	19
104	Fatty Acid Composition of the Milk Fat of Some Desert Mammals. Journal of Mammalogy, 1966, 47, 542-542.	1.3	6
105	Techniques used in measuring diving capacities of Weddell Seals. Polar Record, 1965, 12, 391-394.	0.8	114
106	An Unusual Occurrence of an Elephant Seal at Ross Island, Antarctica. Journal of Mammalogy, 1964, 45, 314-315.	1.3	1
107	Erythrocyte Analysis of Some Antarctic Fishes. Copeia, 1963, 1963, 457.	1.3	18