

Paul J Ponganis

List of Publications by Year in descending order

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Version: 2024-02-01

61
papers

2,023
citations

236833

25
h-index

265120

42
g-index

65
all docs

65
docs citations

65
times ranked

1225
citing authors

#	ARTICLE	IF	CITATIONS
1	Determinants of the Aerobic Dive Limit of Weddell Seals: Analysis of Diving Metabolic Rates, Postdive End Tidal P _{O₂} 's, and Blood and Muscle Oxygen Stores. <i>Physiological Zoology</i> , 1993, 66, 732-749.	1.5	153
2	Extreme hypoxemic tolerance and blood oxygen depletion in diving elephant seals. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2009, 297, R927-R939.	0.9	149
3	Swimming velocities in otariids. <i>Canadian Journal of Zoology</i> , 1990, 68, 2105-2112.	0.4	100
4	Diving Mammals. , 2011, 1, 447-465.		90
5	In pursuit of Irving and Scholander: a review of oxygen store management in seals and penguins. <i>Journal of Experimental Biology</i> , 2011, 214, 3325-3339.	0.8	87
6	High-affinity hemoglobin and blood oxygen saturation in diving emperor penguins. <i>Journal of Experimental Biology</i> , 2009, 212, 3330-3338.	0.8	71
7	Lung collapse in the diving sea lion: hold the nitrogen and save the oxygen. <i>Biology Letters</i> , 2012, 8, 1047-1049.	1.0	68
8	Heart rate regulation and extreme bradycardia in diving emperor penguins. <i>Journal of Experimental Biology</i> , 2008, 211, 1169-1179.	0.8	63
9	Insights from venous oxygen profiles: oxygen utilization and management in diving California sea lions. <i>Journal of Experimental Biology</i> , 2013, 216, 3332-3341.	0.8	63
10	Effects of giant icebergs on two emperor penguin colonies in the Ross Sea, Antarctica. <i>Antarctic Science</i> , 2007, 19, 31-38.	0.5	58
11	Estimating the relative abundance of emperor penguins at inaccessible colonies using satellite imagery. <i>Polar Biology</i> , 2007, 30, 1565-1570.	0.5	57
12	Returning on empty: extreme blood O ₂ depletion underlies dive capacity of emperor penguins. <i>Journal of Experimental Biology</i> , 2007, 210, 4279-4285.	0.8	56
13	Stroke rates and diving air volumes of emperor penguins: implications for dive performance. <i>Journal of Experimental Biology</i> , 2011, 214, 2854-2863.	0.8	55
14	What triggers the aerobic dive limit? Patterns of muscle oxygen depletion during dives of emperor penguins. <i>Journal of Experimental Biology</i> , 2011, 214, 1802-1812.	0.8	55
15	Blood flow and metabolic regulation in seal muscle during apnea. <i>Journal of Experimental Biology</i> , 2008, 211, 3323-3332.	0.8	54
16	Deep-diving sea lions exhibit extreme bradycardia in long-duration dives. <i>Journal of Experimental Biology</i> , 2014, 217, 1525-1534.	0.8	53
17	The aerobic submersion limit of Baikal seals, <i>Phoca sibirica</i> . <i>Canadian Journal of Zoology</i> , 1997, 75, 1323-1327.	0.4	52
18	Energetic Cost of Foraging in Free-Diving Emperor Penguins. <i>Physiological and Biochemical Zoology</i> , 2001, 74, 541-547.	0.6	47

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19	O2 store management in diving emperor penguins. <i>Journal of Experimental Biology</i> , 2009, 212, 217-224.	0.8	47
20	Full circumpolar migration ensures evolutionary unity in the Emperor penguin. <i>Nature Communications</i> , 2016, 7, 11842.	5.8	43
21	Surfactant from diving aquatic mammals. <i>Journal of Applied Physiology</i> , 2004, 96, 1626-1632.	1.2	41
22	Cardiac Output in Swimming California Sea Lions, <i>Zalophus californianus</i> . <i>Physiological Zoology</i> , 1991, 64, 1296-1306.	1.5	38
23	Bio-logging of physiological parameters in higher marine vertebrates. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2007, 54, 183-192.	0.6	33
24	ANALYSIS OF SWIM VELOCITIES DURING DEEP AND SHALLOW DIVES OF TWO NORTHERN FUR SEALS, <i>CALLORHINUS URSINUS</i> . <i>Marine Mammal Science</i> , 1992, 8, 69-75.	0.9	31
25	Blood Temperature Profiles of Diving Elephant Seals. <i>Physiological and Biochemical Zoology</i> , 2010, 83, 531-540.	0.6	31
26	Elevated carboxyhemoglobin in a marine mammal, the northern elephant seal. <i>Journal of Experimental Biology</i> , 2014, 217, 1752-1757.	0.8	31
27	Detection of myoglobin desaturation in <i>Mirounga angustirostris</i> during apnea. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2002, 282, R267-R272.	0.9	25
28	Heart rate regulation in diving sea lions: the vagus nerve rules. <i>Journal of Experimental Biology</i> , 2017, 220, 1372-1381.	0.8	23
29	Blood Oxygen Depletion Is Independent of Dive Function in a Deep Diving Vertebrate, the Northern Elephant Seal. <i>PLoS ONE</i> , 2013, 8, e83248.	1.1	23
30	The initial journey of juvenile emperor penguins. <i>Aquatic Conservation: Marine and Freshwater Ecosystems</i> , 2007, 17, S37-S43.	0.9	20
31	Heart rates, heart rate profiles, and electrocardiograms in three killer whales, a beluga, and a pilot whale: An exploratory investigation. <i>Marine Mammal Science</i> , 2019, 35, 1112-1132.	0.9	19
32	Muscle Energy Stores and Stroke Rates of Emperor Penguins: Implications for Muscle Metabolism and Dive Performance. <i>Physiological and Biochemical Zoology</i> , 2012, 85, 120-133.	0.6	18
33	Diving physiology of marine mammals and birds: the development of biologging techniques. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2021, 376, 20200211.	1.8	18
34	Flipper stroke rate and venous oxygen levels in free-ranging California sea lions. <i>Journal of Experimental Biology</i> , 2017, 220, 1533-1540.	0.8	15
35	Time Domains of Hypoxia Adaptation—Elephant Seals Stand Out Among Divers. <i>Frontiers in Physiology</i> , 2019, 10, 677.	1.3	15
36	State of the art review: from the seaside to the bedside: insights from comparative diving physiology into respiratory, sleep and critical care. <i>Thorax</i> , 2019, 74, 512-518.	2.7	15

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37	Emperor penguins adjust swim speed according to the above-water height of ice holes through which they exit. <i>Journal of Experimental Biology</i> , 2005, 208, 2549-2554.	0.8	14
38	Activity not submergence explains diving heart rates of captive loggerhead turtles. <i>Journal of Experimental Biology</i> , 2019, 222, .	0.8	14
39	MULTIPLE SIGHTINGS OF ARNOUX BEAKED WHALES ALONG THE VICTORIA LAND COAST. <i>Marine Mammal Science</i> , 1995, 11, 247-250.	0.9	12
40	Muscle metabolic profiles and fiber-type composition in some marine mammals. <i>Comparative Biochemistry and Physiology Part B: Comparative Biochemistry</i> , 1978, 59, 99-102.	0.2	11
41	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.	0.8	11
42	Stroke effort and relative lung volume influence heart rate in diving sea lions. <i>Journal of Experimental Biology</i> , 2020, 223, .	0.8	6
43	AFTER 73 YEARS, STILL THE FOUNDATION OF DIVING PHYSIOLOGY RESEARCH. <i>Journal of Experimental Biology</i> , 2013, 216, 3381-3383.	0.8	4
44	Anterior vena caval oxygen profiles in a deep-diving California sea lion: arteriovenous shunts, a central venous oxygen store, and oxygenation during lung collapse. <i>Journal of Experimental Biology</i> , 2018, 221, .	0.8	4
45	A Physio-Logging Journey: Heart Rates of the Emperor Penguin and Blue Whale. <i>Frontiers in Physiology</i> , 2021, 12, 721381.	1.3	4
46	An accelerometer-derived ballistocardiogram method for detecting heart rate in free-ranging marine mammals. <i>Journal of Experimental Biology</i> , 2022, 225, .	0.8	4
47	Cervical air sac oxygen profiles in diving emperor penguins: parabronchial ventilation and the respiratory oxygen store. <i>Journal of Experimental Biology</i> , 2021, 224, .	0.8	3
48	ULTRASOUND INSPECTION FOR INTRAVASCULAR BUBBLES IN A REPETITIVELY DIVING DOLPHIN. <i>Bioacoustics</i> , 2008, 17, 310-312.	0.7	2
49	Effects of inhalational anesthesia on blood gases and pH in California sea lions. <i>Marine Mammal Science</i> , 2017, 33, 726-737.	0.9	2
50	Extreme blood oxygen depletion in diving elephant seals. <i>FASEB Journal</i> , 2008, 22, 757.7.	0.2	2
51	Visualizing Life in the Deep: A Creative Pipeline for Data-Driven Animations to Facilitate Marine Mammal Research, Outreach, and Conservation. , 2021, , .		2
52	Muscle Oxygen Saturation Measurements in Diving Mammals and Birds Using NIRS. , 2013, , 109-121.		1
53	Heart Rate Regulation in the Killer Whale. <i>FASEB Journal</i> , 2016, 30, 1230.9.	0.2	1
54	Morphology and physiology in some small pelagic cetaceans: Is Dall's porpoise a deep diver and a thoroughbred of the sea?. <i>Marine Mammal Science</i> , 2022, 38, 1442-1469.	0.9	1

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55	<i>Advances in Technology: Blood-sampling at depth</i> . Focus on “Development of an animal-borne blood sample collection device and its deployment for the determination of cardiovascular and stress hormones in submerged phocid seals”. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2016, 311, R917-R918.	0.9	0
56	Muscle Oxygen Depletion in Diving Emperor Penguins. <i>FASEB Journal</i> , 2008, 22, 124-124.	0.2	0
57	What Triggers the Aerobic Dive Limit? Patterns of Muscle Oxygen Depletion during Dives of Emperor Penguins. <i>FASEB Journal</i> , 2010, 24, 988.14.	0.2	0
58	Anaerobic Energy Stores in Emperor Penguin Muscle: Implications for Muscle Metabolism and Dive Performance. <i>FASEB Journal</i> , 2012, 26, 886.22.	0.2	0
59	Blood oxygen depletion in California sea lions. <i>FASEB Journal</i> , 2012, 26, 1071.12.	0.2	0
60	Examining the Plasticity of the Dive Response in Relation to Dive Behavior of Northern Elephant Seals. <i>FASEB Journal</i> , 2022, 36, .	0.2	0
61	Research Handling Effects on Stress Hormones, Blood Parameters, and Heart Rate in Juvenile Northern Elephant Seals (<i>Mirounga angustirostris</i>). <i>FASEB Journal</i> , 2022, 36, .	0.2	0