

Peter B Frappell

List of Publications by Year in descending order

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111
papers

3,668
citations

126907

33
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149698

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docs citations

111
times ranked

3378
citing authors

#	ARTICLE	IF	CITATIONS
1	Different strategies for convective O2 transport in high altitude birds: A graphical analysis. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2021, 253, 110871.	1.8	7
2	Respiratory characteristics of the tammar wallaby pouch young and functional limitations in a newborn with skin gas exchange. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2021, 191, 995-1006.	1.5	4
3	Use beer to calibrate your CO2 analyser: celebrate!. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2021, 191, 979-982.	1.5	1
4	Aerobic and anaerobic movement energetics of hybrid and pure parental abalone. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2021, 191, 1111-1124.	1.5	2
5	The effects of constant and cyclical hypoxia on the survival, growth and metabolic physiology of incubating Atlantic salmon (<i>Salmo salar</i>). <i>Aquaculture</i> , 2020, 527, 735449.	3.5	12
6	Cardiovascular responses to progressive hypoxia in ducks native to high altitude in the Andes. <i>Journal of Experimental Biology</i> , 2020, 223, .	1.7	11
7	Impacts of "supermoon" events on the physiology of a wild bird. <i>Ecology and Evolution</i> , 2019, 9, 7974-7984.	1.9	16
8	Control of breathing and respiratory gas exchange in ducks native to high altitude in the Andes. <i>Journal of Experimental Biology</i> , 2019, 222, .	1.7	11
9	Acute but not chronic hyperoxia increases metabolic rate without altering the cardiorespiratory response in Atlantic salmon alevins. <i>Aquaculture</i> , 2019, 502, 189-195.	3.5	5
10	Physiological effects of dissolved oxygen are stage-specific in incubating Atlantic salmon (<i>Salmo</i>) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 3</i> 2019, 189, 109-120.	1.5	12
11	Developmental Hypoxia Has Negligible Effects on Long-Term Hypoxia Tolerance and Aerobic Metabolism of Atlantic Salmon (<i>Salmo salar</i>). <i>Physiological and Biochemical Zoology</i> , 2017, 90, 494-501.	1.5	18
12	Respiratory mechanics of eleven avian species resident at high and low altitude. <i>Journal of Experimental Biology</i> , 2017, 220, 1079-1089.	1.7	23
13	Divergent respiratory and cardiovascular responses to hypoxia in bar-headed geese and Andean birds. <i>Journal of Experimental Biology</i> , 2017, 220, 4186-4194.	1.7	34
14	Do Bar-Headed Geese Train for High Altitude Flights?. <i>Integrative and Comparative Biology</i> , 2017, 57, 240-251.	2.0	8
15	Î±4-Containing nicotinic receptors contribute to the effects of perinatal nicotine on ventilatory and metabolic responses of neonatal mice to ambient cooling. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2016, 311, R727-R734.	1.8	2
16	Automated Non-invasive Video-Microscopy of Oyster Spat Heart Rate during Acute Temperature Change: Impact of Acclimation Temperature. <i>Frontiers in Physiology</i> , 2016, 7, 236.	2.8	12
17	Associations between Resting, Activity, and Daily Metabolic Rate in Free-Living Endotherms: No Universal Rule in Birds and Mammals. <i>Physiological and Biochemical Zoology</i> , 2016, 89, 251-261.	1.5	41
18	The maternal effect of differences in egg size influence metabolic rate and hypoxia induced hatching in Atlantic salmon eggs: implications for respiratory gas exchange across the egg capsule. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2016, 73, 1173-1181.	1.4	11

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19	The roller coaster flight strategy of bar-headed geese conserves energy during Himalayan migrations. <i>Science</i> , 2015, 347, 250-254.	12.6	165
20	Pregnancy limits lung function during exercise and depresses metabolic rate in the skink <i>Tiliqua nigrolutea</i> . <i>Journal of Experimental Biology</i> , 2015, 218, 931-939.	1.7	6
21	How Bar-Headed Geese Fly Over the Himalayas. <i>Physiology</i> , 2015, 30, 107-115.	3.1	104
22	Prenatal nicotine exposure increases hyperventilation in $\hat{1}\pm 4$ -knock-out mice during mild asphyxia. <i>Respiratory Physiology and Neurobiology</i> , 2015, 208, 29-36.	1.6	3
23	Maximum Running Speed of Captive Bar-Headed Geese Is Unaffected by Severe Hypoxia. <i>PLoS ONE</i> , 2014, 9, e94015.	2.5	30
24	Acid-base balance in the developing marsupial: from ectotherm to endotherm. <i>Journal of Applied Physiology</i> , 2014, 116, 1210-1219.	2.5	5
25	Fluctuations in oxygen influence facultative endothermy in bumblebees. <i>Journal of Experimental Biology</i> , 2014, 217, 3834-3842.	1.7	5
26	Growth hormone transgenesis and polyploidy increase metabolic rate, alter the cardiorespiratory response and influence HSP expression to acute hypoxia in Atlantic salmon (<i>Salmo salar</i>) yolk-sac alevins. <i>Journal of Experimental Biology</i> , 2014, 217, 2268-76.	1.7	9
27	Novel method for conscious airway resistance and ventilation estimation in neonatal rodents using plethysmography and a mechanical lung. <i>Respiratory Physiology and Neurobiology</i> , 2014, 201, 75-83.	1.6	11
28	The paradox of extreme high-altitude migration in bar-headed geese <i>Anser indicus</i> . <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2013, 280, 20122114.	2.6	75
29	An increase in minimum metabolic rate and not activity explains field metabolic rate changes in a breeding seabird. <i>Journal of Experimental Biology</i> , 2013, 216, 1726-35.	1.7	18
30	Measurements of air ventilation in small vertebrates. <i>Respiratory Physiology and Neurobiology</i> , 2013, 186, 197-205.	1.6	26
31	Respirometry: Correcting for Diffusion and Validating the Use of Plastic Multiwell Plates with Integrated Optodes. <i>Physiological and Biochemical Zoology</i> , 2013, 86, 588-592.	1.5	6
32	Phase Contrast Imaging Reveals Low Lung Volumes and Surface Areas in the Developing Marsupial. <i>PLoS ONE</i> , 2013, 8, e53805.	2.5	6
33	Video Microscopy Detection of Oyster Spat Heart Rate (HR): Acclimation temperature alters HR response to acute temperature change. <i>FASEB Journal</i> , 2013, 27, 714.9.	0.5	0
34	The accessory role of the diaphragmaticus muscle in lung ventilation in the estuarine crocodile <i>Crocodylus porosus</i> . <i>Journal of Experimental Biology</i> , 2012, 215, 845-852.	1.7	22
35	The ventilatory response to hypoxia and hypercapnia is absent in the neonatal fat-tailed dunnart. <i>Journal of Experimental Biology</i> , 2012, 215, 4242-7.	1.7	4
36	Phylogenetic differences of mammalian basal metabolic rate are not explained by mitochondrial basal proton leak. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2012, 279, 185-193.	2.6	30

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37	Metabolic cold adaptation in fishes occurs at the level of whole animal, mitochondria and enzyme. Proceedings of the Royal Society B: Biological Sciences, 2012, 279, 1740-1747.	2.6	112
38	An information-theoretic approach to evaluating the size and temperature dependence of metabolic rate. Proceedings of the Royal Society B: Biological Sciences, 2012, 279, 3616-3621.	2.6	36
39	Absence of adaptive nonshivering thermogenesis in a marsupial, the fat-tailed dunnart (<i>Sminthopsis</i>) Tj ETQq1 1 0.784314 rgBT /Over Physiology, 2012, 182, 393-401.	1.5	26
40	Fluctuations in oxygen influences facultative endothermy in bumblebees. FASEB Journal, 2012, 26, 1071.4.	0.5	0
41	Point: High Altitude is for the Birds!. Journal of Applied Physiology, 2011, 111, 1514-1515.	2.5	13
42	Last Word on Point:Counterpoint: High altitude is/is not for the birds!. Journal of Applied Physiology, 2011, 111, 1525-1525.	2.5	0
43	The trans-Himalayan flights of bar-headed geese (<i>Anser indicus</i>). Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 9516-9519.	7.1	135
44	Structural and Functional Development of the Respiratory System in a Newborn Marsupial with Cutaneous Gas Exchange. Physiological and Biochemical Zoology, 2011, 84, 634-649.	1.5	22
45	Simultaneous biologging of heart rate and acceleration, and their relationships with energy expenditure in free-swimming sockeye salmon (<i>Oncorhynchus nerka</i>). Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2010, 180, 673-684.	1.5	116
46	Do implanted data-loggers affect the time spent at sea by Little Penguins (<i>Eudyptula minor</i>) during winter?. Emu, 2010, 110, 71-77.	0.6	7
47	Physiological Responses of Free-Swimming Adult Coho Salmon to Simulated Predator and Fisheries Encounters. Physiological and Biochemical Zoology, 2010, 83, 973-983.	1.5	61
48	Does Incubation Temperature Fluctuation Influence Hatchling Phenotypes in Reptiles? A Test Using Parthenogenetic Geckos. Physiological and Biochemical Zoology, 2010, 83, 597-607.	1.5	19
49	Predicting the rate of oxygen consumption from heart rate in barnacle geese <i>Branta leucopsis</i> : effects of captivity and annual changes in body condition. Journal of Experimental Biology, 2009, 212, 2941-2948.	1.7	23
50	Estimating energy expenditure of animals using the accelerometry technique: activity, inactivity and comparison with the heart-rate technique. Journal of Experimental Biology, 2009, 212, 471-482.	1.7	123
51	Accelerometry to Estimate Energy Expenditure during Activity: Best Practice with Data Loggers. Physiological and Biochemical Zoology, 2009, 82, 396-404.	1.5	115
52	Sex differences in circulatory oxygen transport parameters of sockeye salmon (<i>Oncorhynchus nerka</i>) on the spawning ground. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2009, 179, 663-671.	1.5	39
53	Conditional expression of central respiratory rhythm in developing fat-tailed dunnarts (Marsupialia:) Tj ETQq1 1 0.784314 rgBT /Over Physiology, 2008, 180, 673-684.	0.5	0
54	Ontogeny and allometry of metabolic rate and ventilation in the marsupial: Matching supply and demand from ectothermy to endothermy. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2008, 150, 181-188.	1.8	16

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55	Central nitric oxide synthase inhibition restores behaviorally mediated lipopolysaccharide induced fever in near-term rats. <i>Physiology and Behavior</i> , 2008, 94, 630-634.	2.1	6
56	Phenotypic differences in terrestrial frog embryos: effect of water potential and phase. <i>Journal of Experimental Biology</i> , 2008, 211, 3800-3807.	1.7	5
57	Marsupial uncoupling protein 1 sheds light on the evolution of mammalian nonshivering thermogenesis. <i>Physiological Genomics</i> , 2008, 32, 161-169.	2.3	76
58	Moving with the beat: heart rate and visceral temperature of free-swimming and feeding bluefin tuna. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2008, 275, 2841-2850.	2.6	43
59	Characterizing the breath-hold breath hypercapnic ventilatory response in neonatal rats. <i>FASEB Journal</i> , 2008, 22, 955.9.	0.5	1
60	Improving the Precision and Accuracy for Estimating Energy Expenditure Using the Heart Rate Method. <i>Physiological and Biochemical Zoology</i> , 2007, 80, 551-555.	1.5	8
61	Oxygen transport at high altitude—An integrated perspective. <i>Respiratory Physiology and Neurobiology</i> , 2007, 158, 115-120.	1.6	10
62	Development of the respiratory system in marsupials. <i>Respiratory Physiology and Neurobiology</i> , 2006, 154, 252-267.	1.6	33
63	Factors influencing the prediction of metabolic rate in a reptile. <i>Functional Ecology</i> , 2006, 20, 105-113.	3.6	28
64	Physiological Response to Feeding in Little Penguins. <i>Physiological and Biochemical Zoology</i> , 2006, 79, 1088-1097.	1.5	17
65	Digestive state influences the heart rate hysteresis and rates of heat exchange in the varanid lizard <i>Varanus rosenbergi</i> . <i>Journal of Experimental Biology</i> , 2005, 208, 2269-2276.	1.7	13
66	Factorial Aerobic Scope Is Independent of Temperature and Primarily Modulated by Heart Rate in Exercising Murray Cod (<i>Maccullochella peelii peelii</i>). <i>Physiological and Biochemical Zoology</i> , 2005, 78, 347-355.	1.5	58
67	Development of mechanics and pulmonary reflexes. <i>Respiratory Physiology and Neurobiology</i> , 2005, 149, 143-154.	1.6	33
68	Minimal Metabolic Rate, What It Is, Its Usefulness, and Its Relationship to the Evolution of Endothermy: A Brief Synopsis. <i>Physiological and Biochemical Zoology</i> , 2004, 77, 865-868.	1.5	58
69	Hypothermia and hypoxia inhibit the Hering-Breuer reflex in the marsupial newborn. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2004, 286, R857-R864.	1.8	6
70	Siah2 Regulates Stability of Prolyl-Hydroxylases, Controls HIF1 α Abundance, and Modulates Physiological Responses to Hypoxia. <i>Cell</i> , 2004, 117, 941-952.	28.9	381
71	Ventilation and metabolic rate in the platypus: insights into the evolution of the mammalian breathing pattern. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2003, 136, 943-955.	1.8	12
72	Ventilation and Metabolism in a Large Semifossorial Marsupial: The Effect of Graded Hypoxia and Hypercapnia. <i>Physiological and Biochemical Zoology</i> , 2002, 75, 77-82.	1.5	20

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73	The respiratory system in varanid lizards: determinants of O ₂ transfer. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2002, 133, 239-258.	1.8	20
74	The relationship between heart rate and rate of oxygen consumption in Galapagos marine iguanas (<i>Amblyrhynchus cristatus</i>) at two different temperatures. <i>Journal of Experimental Biology</i> , 2002, 205, 1917-1924.	1.7	37
75	Oxygen transfer during aerobic exercise in a varanid lizard <i>Varanus mertensi</i> is limited by the circulation. <i>Journal of Experimental Biology</i> , 2002, 205, 2725-2736.	1.7	41
76	Mechanics of the respiratory system in the newborn tammar wallaby. <i>Journal of Experimental Biology</i> , 2002, 205, 533-538.	1.7	25
77	Mechanics of the respiratory system in the newborn tammar wallaby. <i>Journal of Experimental Biology</i> , 2002, 205, 533-8.	1.7	18
78	The relationship between heart rate and rate of oxygen consumption in Galapagos marine iguanas (<i>Amblyrhynchus cristatus</i>) at two different temperatures. <i>Journal of Experimental Biology</i> , 2002, 205, 1917-24.	1.7	27
79	Oxygen transfer during aerobic exercise in a varanid lizard <i>Varanus mertensi</i> is limited by the circulation. <i>Journal of Experimental Biology</i> , 2002, 205, 2725-36.	1.7	24
80	Convection requirement is established by total metabolic rate in the newborn tammar wallaby. <i>Respiration Physiology</i> , 2001, 126, 221-231.	2.7	20
81	Behavioral thermoregulation in obese and lean Zucker rats in a thermal gradient. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2001, 281, R1675-R1680.	1.8	15
82	Scaling of Respiratory Variables and the Breathing Pattern in Birds: An Allometric and Phylogenetic Approach. <i>Physiological and Biochemical Zoology</i> , 2001, 74, 75-89.	1.5	71
83	Energetics of terrestrial locomotion of the platypus <i>Ornithorhynchus anatinus</i> . <i>Journal of Experimental Biology</i> , 2001, 204, 797-803.	1.7	28
84	The influence of locomotion on air-sac pressures in little penguins. <i>Journal of Experimental Biology</i> , 2001, 204, 3581-6.	1.7	7
85	The Influence of Haemoglobin on Behavioural Thermoregulation and Oxygen Consumption in <i>Daphnia carinata</i> . <i>Physiological and Biochemical Zoology</i> , 2000, 73, 153-160.	1.5	33
86	Birth weight and altitude: A study in Peruvian communities. <i>Journal of Pediatrics</i> , 2000, 136, 324-329.	1.8	108
87	Respiratory function in a newborn marsupial with skin gas exchange. <i>Respiration Physiology</i> , 2000, 120, 35-45.	2.7	52
88	Ventilatory Responses to Changes in Temperature in Mammals and Other Vertebrates. <i>Annual Review of Physiology</i> , 2000, 62, 847-874.	13.1	68
89	Breathing through skin in a newborn mammal. <i>Nature</i> , 1999, 397, 660-660.	27.8	67
90	Do lizards breathe through their mouths while running?. <i>Experimental Biology Online</i> , 1999, 4, 1-46.	1.0	4

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91	Heart rate variability in 1-day-old infants born at 4330 m altitude. <i>Clinical Science</i> , 1999, 96, 147-153.	4.3	2
92	Experimental Biology 1997 Symposium on Neurobiology of Thermoregulation: Role of Stress: HYPOTHERMIA AND PHYSIOLOGICAL CONTROL: THE RESPIRATORY SYSTEM. <i>Clinical and Experimental Pharmacology and Physiology</i> , 1998, 25, 159-164.	1.9	12
93	Ventilatory, cardiovascular and metabolic responses to hypoxia and hypercapnia in the armadillo. <i>Respiration Physiology</i> , 1998, 113, 101-109.	2.7	27
94	How stiff is the armadillo?. <i>Respiration Physiology</i> , 1998, 113, 111-122.	2.7	14
95	Response to Cooling Temperature in Infants Born at an Altitude of 4,330 Meters. <i>American Journal of Respiratory and Critical Care Medicine</i> , 1998, 158, 1751-1756.	5.6	35
96	The Effects of Environmental Temperature, Hypoxia, and Hypercapnia on the Breathing Pattern of Saltwater Crocodiles (<i>Crocodylus porosus</i>). <i>Physiological Zoology</i> , 1998, 71, 267-273.	1.5	21
97	On the barometric method for measurements of ventilation, and its use in small animals. <i>Canadian Journal of Physiology and Pharmacology</i> , 1998, 76, 937-944.	1.4	58
98	Passive body movement and gas exchange in the frilled lizard (<i>Chlamydosaurus kingii</i>) and goanna (<i>Varanus gouldii</i>).. <i>Journal of Experimental Biology</i> , 1998, 201, 2307-2311.	1.7	4
99	Passive body movement and gas exchange in the frilled lizard (<i>Chlamydosaurus kingii</i>) and goanna (<i>Varanus gouldii</i>). <i>Journal of Experimental Biology</i> , 1998, 201, 2307-11.	1.7	3
100	Energetics of swimming by the platypus <i>Ornithorhynchus anatinus</i> : metabolic effort associated with rowing. <i>Journal of Experimental Biology</i> , 1997, 200, 2647-52.	1.7	16
101	Scaling of respiratory variables and the breathing pattern in adult marsupials. <i>Respiration Physiology</i> , 1995, 100, 83-90.	2.7	29
102	Ventilatory and metabolic responses to hypoxia in the echidna, <i>Tachyglossus aculeatus</i> . <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 1994, 267, R1510-R1515.	1.8	10
103	Hamsters vs. rats: metabolic and ventilatory response to development in chronic hypoxia. <i>Journal of Applied Physiology</i> , 1994, 77, 2748-2752.	2.5	37
104	Ventilatory and Metabolic Responses to Acute Hyperoxia in Newborns. <i>The American Review of Respiratory Disease</i> , 1992, 146, 11-15.	2.9	55
105	Metabolism during normoxia, hyperoxia, and recovery in newborn rats. <i>Canadian Journal of Physiology and Pharmacology</i> , 1992, 70, 408-411.	1.4	31
106	Metabolism during normoxia, hypoxia and recovery in the newborn kitten. <i>Respiration Physiology</i> , 1991, 86, 115-124.	2.7	53
107	Temperature effects on ventilation and metabolism in the lizard, <i>Ctenophorus nuchalis</i> . <i>Respiration Physiology</i> , 1991, 86, 257-270.	2.7	35
108	Ventilation and Oxygen Consumption in Agamid Lizards. <i>Physiological Zoology</i> , 1991, 64, 985-1001.	1.5	25

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109	Understanding respirometry chambers: What goes in must come out. <i>Journal of Theoretical Biology</i> , 1989, 138, 479-494.	1.7	55
110	Respiratory mechanics in small newborn mammals. <i>Respiration Physiology</i> , 1989, 76, 25-36.	2.7	21
111	Changes in metabolic rates and blood respiratory characteristics during pouch development of a marsupial, <i>Macropus eugenii</i> . <i>Respiration Physiology</i> , 1988, 72, 219-228.	2.7	34