

Roger S Seymour

List of Publications by Citations

Source: <https://exaly.com/author-pdf/4021301/roger-s-seymour-publications-by-citations.pdf>

Version: 2024-04-24

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

180
papers

5,718
citations

40
h-index

66
g-index

182
ext. papers

6,295
ext. citations

4.8
avg, IF

5.99
L-index

#	Paper	IF	Citations
180	Mammalian basal metabolic rate is proportional to body mass ^{2/3} . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 4046-9	11.5	523
179	Allometric scaling of mammalian metabolism. <i>Journal of Experimental Biology</i> , 2005 , 208, 1611-9	3	287
178	The scaling and temperature dependence of vertebrate metabolism. <i>Biology Letters</i> , 2006 , 2, 125-7	3.6	269
177	Environmental biology: heat reward for insect pollinators. <i>Nature</i> , 2003 , 426, 243-4	50.4	157
176	Does basal metabolic rate contain a useful signal? Mammalian BMR allometry and correlations with a selection of physiological, ecological, and life-history variables. <i>Physiological and Biochemical Zoology</i> , 2004 , 77, 929-41	2	134
175	Phylogenetically informed analysis of the allometry of Mammalian Basal metabolic rate supports neither geometric nor quarter-power scaling. <i>Evolution; International Journal of Organic Evolution</i> , 2009 , 63, 2658-67	3.8	129
174	Evidence for endothermic ancestors of crocodiles at the stem of archosaur evolution. <i>Physiological and Biochemical Zoology</i> , 2004 , 77, 1051-67	2	120
173	Heat-producing flowers. <i>Endeavour</i> , 1997 , 21, 125-129	0.5	105
172	The principle of laplace and scaling of ventricular wall stress and blood pressure in mammals and birds. <i>Physiological and Biochemical Zoology</i> , 2000 , 73, 389-405	2	90
171	Respiration of Amphibian Eggs. <i>Physiological Zoology</i> , 1995 , 68, 1-25		86
170	Thermoregulating lotus flowers. <i>Nature</i> , 1996 , 383, 305-305	50.4	78
169	Biophysics and physiology of temperature regulation in thermogenic flowers. <i>Bioscience Reports</i> , 2001 , 21, 223-36	4.1	77
168	The Echidna. <i>Scientific American</i> , 1991 , 264, 96-103	0.5	76
167	Adaptations to Underground Nesting in Birds and Reptiles. <i>American Zoologist</i> , 1980 , 20, 437-447		76
166	The diving bell and the spider: the physical gill of <i>Argyroneta aquatica</i> . <i>Journal of Experimental Biology</i> , 2011 , 214, 2175-81	3	75
165	Dinosaur eggs: gas conductance through the shell, water loss during incubation and clutch size. <i>Paleobiology</i> , 1979 , 5, 1-11	2.6	72
164	Metabolic scope, swimming performance and the effects of hypoxia in the mulloway, <i>Argyrosomus japonicus</i> (Pisces: Sciaenidae). <i>Aquaculture</i> , 2007 , 270, 358-368	4.4	68

163	Respiration of the eggs of the giant cuttlefish <i>Sepia apama</i> . <i>Marine Biology</i> , 2000 , 136, 863-870	2.5	67
162	Respiration and heat production by the inflorescence of <i>Philodendron selloum</i> Koch. <i>Planta</i> , 1983 , 157, 336-43	4.7	67
161	Thermogenesis and respiration of inflorescences of the dead horse arum <i>Helicodiceros muscivorus</i> , a pseudo-thermoregulatory aroid associated with fly pollination. <i>Functional Ecology</i> , 2003 , 17, 886-894	5.6	66
160	Physiological Correlates of Forced Activity and Burrowing in the Spadefoot Toad, <i>Scaphiopus hammondii</i> . <i>Copeia</i> , 1973 , 1973, 103	1.1	64
159	Contribution of the alternative pathway to respiration during thermogenesis in flowers of the sacred lotus. <i>Plant Physiology</i> , 2006 , 140, 1367-73	6.6	60
158	Blood pressure in snakes from different habitats. <i>Nature</i> , 1976 , 264, 664-6	50.4	60
157	Physiological temperature regulation by flowers of the sacred lotus. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 1998 , 353, 935-943	5.8	59
156	The role of thermogenesis in the pollination biology of the Amazon waterlily <i>Victoria amazonica</i> . <i>Annals of Botany</i> , 2006 , 98, 1129-35	4.1	57
155	Influence of Environmental Po ₂ on Embryonic Oxygen Consumption, Rate of Development, and Hatching in the Frog <i>Pseudophryne bibroni</i> . <i>Physiological Zoology</i> , 1988 , 61, 475-482		57
154	Scaling of Cardiovascular Physiology in Snakes. <i>American Zoologist</i> , 1987 , 27, 97-109		55
153	Energetics of Embryonic Development in the Megapode Birds, Mallee Fowl <i>Leipoa ocellata</i> and Brush Turkey <i>Alectura lathami</i> . <i>Physiological Zoology</i> , 1984 , 57, 444-456		54
152	The regulation index: a new method for assessing the relationship between oxygen consumption and environmental oxygen. <i>Physiological and Biochemical Zoology</i> , 2011 , 84, 522-32	2	51
151	Blood flow uphill and downhill: does a siphon facilitate circulation above the heart?. <i>Comparative Biochemistry and Physiology A, Comparative Physiology</i> , 1987 , 88, 167-70		50
150	Physical gills in diving insects and spiders: theory and experiment. <i>Journal of Experimental Biology</i> , 2013 , 216, 164-70	3	48
149	Pollination ecology of <i>Magnolia ovata</i> may explain the overall large flower size of the genus. <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , 2012 , 207, 107-118	1.9	47
148	Gas exchange in the incubation mounds of megapode birds. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 1986 , 156, 773-782	2.2	47
147	Sample size and mass range effects on the allometric exponent of basal metabolic rate. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2005 , 142, 74-8	2.6	46
146	Thermal relations, water loss and oxygen consumption of a North American tarantula. <i>Comparative Biochemistry and Physiology A, Comparative Physiology</i> , 1973 , 44, 83-96		45

145	Energy Conservation during the Delayed-Hatching Period in the Frog <i>Pseudophryne bibroni</i> . <i>Physiological Zoology</i> , 1985 , 58, 491-496		45
144	Influence of environmental oxygen on development and hatching of aquatic eggs of the Australian frog, <i>Crinia georgiana</i> . <i>Physiological and Biochemical Zoology</i> , 2000 , 73, 501-7	2	43
143	Blood flow to long bones indicates activity metabolism in mammals, reptiles and dinosaurs. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2012 , 279, 451-6	4.4	41
142	Polyunsaturated dietary lipids lower the selected body temperature of a lizard. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 1992 , 162, 1-4	2.2	41
141	Effect of Eggshell Thinning on Water Vapor Conductance of Malleefowl Eggs. <i>Condor</i> , 1987 , 89, 453	2.1	41
140	Dynamics and precision of thermoregulatory responses of eastern skunk cabbage <i>Symplocarpus foetidus</i> . <i>Plant, Cell and Environment</i> , 2004 , 27, 1014-1022	8.4	39
139	The role of gravity in the evolution of mammalian blood pressure. <i>Evolution; International Journal of Organic Evolution</i> , 2014 , 68, 901-8	3.8	38
138	Gravity and the evolution of cardiopulmonary morphology in snakes. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2012 , 161, 230-42	2.6	38
137	Plants That Warm Themselves. <i>Scientific American</i> , 1997 , 276, 104-109	0.5	37
136	Respiration of Aquatic and Terrestrial Amphibian Embryos. <i>American Zoologist</i> , 1999 , 39, 261-270		37
135	Patterns of Metabolic Rate in Embryonic Crocodylians <i>Crocodylus johnstoni</i> and <i>Crocodylus porosus</i> . <i>Physiological Zoology</i> , 1990 , 63, 334-352		37
134	Gas exchange through the jelly capsule of the terrestrial eggs of the frog, <i>Pseudophryne bibroni</i> . <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 1987 , 157, 477-481	2.2	37
133	Pulmonary and cutaneous oxygen uptake in sea snakes and a file snake. <i>Comparative Biochemistry and Physiology A, Comparative Physiology</i> , 1975 , 51, 399-405		36
132	Effects of floral thermogenesis on pollen function in Asian skunk cabbage <i>Symplocarpus renifolius</i> . <i>Biology Letters</i> , 2009 , 5, 568-70	3.6	32
131	Heat production by sacred lotus flowers depends on ambient temperature, not light cycle. <i>Journal of Experimental Botany</i> , 1998 , 49, 1213-1217	7	32
130	Water relations of buried eggs of mound building birds. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 1987 , 157, 413-422	2.2	32
129	Scaling of heat production by thermogenic flowers: limits to floral size and maximum rate of respiration. <i>Plant, Cell and Environment</i> , 2010 , 33, 1474-85	8.4	31
128	Endothermy of dynastine scarab beetles (<i>Cyclocephala colasi</i>) associated with pollination biology of a thermogenic arum lily (<i>Philodendron solimoesense</i>). <i>Journal of Experimental Biology</i> , 2009 , 212, 2960-8	2	31

127	Floral thermogenesis of three species of Hydnora (Hydnoraceae) in Africa. <i>Annals of Botany</i> , 2009 , 104, 823-32	4.1	31
126	Diving insects boost their buoyancy bubbles. <i>Nature</i> , 2006 , 441, 171	50.4	31
125	Embryonic Respiration and Oxygen Distribution in Foamy and Nonfoamy Egg Masses of the Frog <i>Limnodynastes tasmaniensis</i> . <i>Physiological Zoology</i> , 1991 , 64, 1322-1340		31
124	Influence of Water Potential on Growth and Survival of the Embryo, and Gas Conductance of the Egg, in a Terrestrial Breeding Frog, <i>Pseudophryne bibroni</i> . <i>Physiological Zoology</i> , 1988 , 61, 470-474		29
123	A review of the energetics of pollination biology. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2013 , 183, 867-76	2.2	28
122	The trade-off between maturation and growth during accelerated development in frogs. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2012 , 163, 95-102 ⁶		28
121	EVOLUTION OF THE AMNIOTE EGG 1997 , 265-290		28
120	Hearts, neck posture and metabolic intensity of sauropod dinosaurs. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2000 , 267, 1883-7	4.4	28
119	Fossil skulls reveal that blood flow rate to the brain increased faster than brain volume during human evolution. <i>Royal Society Open Science</i> , 2016 , 3, 160305	3.3	27
118	Dinosaurs, endothermy and blood pressure. <i>Nature</i> , 1976 , 262, 207-208	50.4	27
117	Gas Conductance of the Jelly Capsule of Terrestrial Frog Eggs Correlates with Embryonic Stage, Not Metabolic Demand or Ambient Po ₂ . <i>Physiological Zoology</i> , 1991 , 64, 673-687		27
116	Thermogenesis of three species of Arum from Crete. <i>Plant, Cell and Environment</i> , 2009 , 32, 1467-76	8.4	26
115	Independent effects of heart-head distance and caudal blood pooling on blood pressure regulation in aquatic and terrestrial snakes. <i>Journal of Experimental Biology</i> , 2004 , 207, 1305-11	3	26
114	Temperature Regulation in the Incubation Mounds of the Australian Brush-Turkey. <i>Condor</i> , 1992 , 94, 134-150	2.1	26
113	Symmorphosis and the insect respiratory system: allometric variation. <i>Journal of Experimental Biology</i> , 2011 , 214, 3225-37	3	25
112	Effect of aerial O ₂ partial pressure on bimodal gas exchange and air-breathing behaviour in <i>Trichogaster leerii</i> . <i>Journal of Experimental Biology</i> , 2007 , 210, 2311-9	3	25
111	Effects of temperature on energy cost and timing of embryonic and larval development of the terrestrially breeding moss frog, <i>Bryobatrachus nimbus</i> . <i>Physiological and Biochemical Zoology</i> , 2000 , 73, 829-40	2	25
110	Aeration of the shell membranes of avian eggs. <i>Respiration Physiology</i> , 1988 , 71, 101-15		25

109	Gas Tensions and Blood Distribution in Sea Snakes at Surface Pressure and at Simulated Depth. <i>Physiological Zoology</i> , 1978 , 51, 388-407		25
108	Scaling of resting and maximum hopping metabolic rate throughout the life cycle of the locust <i>Locusta migratoria</i> . <i>Journal of Experimental Biology</i> , 2011 , 214, 3218-24	3	24
107	Direct and indirect calorimetry of thermogenic flowers of the sacred lotus, <i>Nelumbo nucifera</i> . <i>Thermochimica Acta</i> , 1998 , 309, 5-16	2.9	24
106	Respiration and thermogenesis by cones of the Australian cycad <i>Macrozamia machinii</i> . <i>Functional Ecology</i> , 2004 , 18, 925-930	5.6	24
105	Maximal aerobic and anaerobic power generation in large crocodiles versus mammals: implications for dinosaur gigantothermy. <i>PLoS ONE</i> , 2013 , 8, e69361	3.7	23
104	Raising the sauropod neck: it costs more to get less. <i>Biology Letters</i> , 2009 , 5, 317-9	3.6	23
103	Respiration of thermogenic inflorescences of <i>Philodendron melinonii</i> : natural pattern and responses to experimental temperatures. <i>Journal of Experimental Botany</i> , 2008 , 59, 1353-62	7	23
102	Effect of local shell conductance on the vascularisation of the chicken chorioallantoic membrane. <i>Respiratory Physiology and Neurobiology</i> , 2003 , 134, 155-67	2.8	23
101	Haemoglobin as a buoyancy regulator and oxygen supply in the backswimmer (Notonectidae, Anisops). <i>Journal of Experimental Biology</i> , 2008 , 211, 3790-9	3	22
100	Transcriptome analysis of thermogenic <i>Arum concinatum</i> reveals the molecular components of floral scent production. <i>Scientific Reports</i> , 2015 , 5, 8753	4.9	21
99	The energy cost of embryonic development in fishes and amphibians, with emphasis on new data from the Australian lungfish, <i>Neoceratodus forsteri</i> . <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2011 , 181, 43-52	2.2	21
98	Oxygen Uptake by the Aquatic Eggs of the Australian Frog <i>Crinia georgiana</i> . <i>Physiological Zoology</i> , 1995 , 68, 206-222		21
97	Metabolic Cost of Development in Terrestrial Frog Eggs (<i>Pseudophryne bibronii</i>). <i>Physiological Zoology</i> , 1991 , 64, 688-696		21
96	Effects of environmental oxygen on development and respiration of Australian lungfish (<i>Neoceratodus forsteri</i>) embryos. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2011 , 181, 941-52	2.2	19
95	Compressible gas gills of diving insects: measurements and models. <i>Journal of Insect Physiology</i> , 2010 , 56, 470-9	2.4	19
94	Balancing the competing requirements of saltatorial and fossorial specialisation: burrowing costs in the spinifex hopping mouse, <i>Notomys alexis</i> . <i>Journal of Experimental Biology</i> , 2006 , 209, 2103-13	3	19
93	Effects of variation in total and regional shell conductance on air cell gas tensions and regional gas exchange in chicken eggs. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 1988 , 158, 229-236	2.2	19
92	Switching off the heater: influence of ambient temperature on thermoregulation by eastern skunk cabbage <i>Symplocarpus foetidus</i>		19

91	Ubiquitous expression of a gene encoding for uncoupling protein isolated from the thermogenic inflorescence of the dead horse arum <i>Heliconia caribaea</i> . <i>Journal of Experimental Botany</i> , 2003 , 54, 1113-4	7	18
90	Scaling of cerebral blood perfusion in primates and marsupials. <i>Journal of Experimental Biology</i> , 2015 , 218, 2631-40	3	17
89	Respiration and temperature patterns in thermogenic flowers of <i>Magnolia ovata</i> under natural conditions in Brazil. <i>Functional Plant Biology</i> , 2010 , 37, 870	2.7	17
88	Continuous measurement of oxygen tensions in the air-breathing organ of Pacific tarpon (<i>Megalops cyprinoides</i>) in relation to aquatic hypoxia and exercise. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2007 , 177, 579-87	2.2	17
87	The effects of nest temperature, nest substrate, and clutch size on the oxygenation of embryos and larvae of the Australian moss frog, <i>Bryobatrachus nimbus</i> . <i>Physiological and Biochemical Zoology</i> , 2003 , 76, 60-71	2	17
86	Effect of regional changes to shell conductance on oxygen consumption and growth of chicken embryos. <i>Respiration Physiology</i> , 2002 , 129, 385-95		17
85	Biphasic Allometry of Cardiac Growth in the Developing Kangaroo <i>Macropus fuliginosus</i> . <i>Physiological and Biochemical Zoology</i> , 2015 , 88, 216-25	2	16
84	Symmorphosis and the insect respiratory system: a comparison between flight and hopping muscle. <i>Journal of Experimental Biology</i> , 2012 , 215, 3324-33	3	16
83	Diffusion pathway for oxygen into highly thermogenic florets of the arum lily <i>Philodendron selloum</i> . <i>Journal of Experimental Botany</i> , 2001 , 52, 1465-72	7	16
82	Stigma peroxidase activity in association with thermogenesis in <i>Nelumbo nucifera</i> . <i>Aquatic Botany</i> , 2000 , 67, 155-159	1.8	16
81	Oxygen Uptake by Embryos in Gelatinous Egg Masses of <i>Rana sylvatica</i> : The Roles of Diffusion and Convection. <i>Copeia</i> , 1995 , 1995, 626	1.1	16
80	A novel pore system in the eggshells of the mallee fowl, <i>Leipoa ocellata</i> . <i>The Journal of Experimental Zoology</i> , 1982 , 220, 131-134		16
79	Scaling of standard metabolic rate in estuarine crocodiles <i>Crocodylus porosus</i> . <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2013 , 183, 491-500	2.2	15
78	Respiratory gas exchange during thermogenesis in <i>Philodendron selloum</i> Koch. <i>Planta</i> , 1984 , 161, 229-32	4.7	15
77	Sauropods kept their heads down. <i>Science</i> , 2009 , 323, 1671-2; author reply 1671-2	33.3	14
76	Thermal clamping of temperature-regulating flowers reveals the precision and limits of the biochemical regulatory mechanism. <i>Planta</i> , 2010 , 231, 1291-300	4.7	14
75	Cardiovascular Physiology of Dinosaurs. <i>Physiology</i> , 2016 , 31, 430-441	9.8	14
74	The effects of temperature, activity and convection on the plastron PO of the aquatic bug <i>Aphelocheirus aestivalis</i> (Hemiptera; Aphelocheiridae). <i>Journal of Insect Physiology</i> , 2018 , 106, 155-162	2.4	12

73	Scaling of left ventricle cardiomyocyte ultrastructure across development in the kangaroo <i>Macropus fuliginosus</i> . <i>Journal of Experimental Biology</i> , 2015 , 218, 1767-76	3	12
72	Maximum metabolic rate, relative lift, wingbeat frequency and stroke amplitude during tethered flight in the adult locust <i>Locusta migratoria</i> . <i>Journal of Experimental Biology</i> , 2012 , 215, 3317-23	3	12
71	Developmental allometry of pulmonary structure and function in the altricial Australian pelican <i>Pelecanus conspicillatus</i> . <i>Journal of Experimental Biology</i> , 2004 , 207, 2663-9	3	12
70	Model analogues in the study of cephalic circulation. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2000 , 125, 517-24	2.6	12
69	Analysis of heat production in a thermogenic arum lily, <i>Philodendron selloum</i> , by three calorimetric methods. <i>Thermochimica Acta</i> , 1991 , 193, 91-97	2.9	12
68	Pattern of respiration by intact inflorescences of the thermogenic arum lily <i>Philodendron selloum</i>		12
67	Scaling of the ankle extensor muscle-tendon units and the biomechanical implications for bipedal hopping locomotion in the post-pouch kangaroo <i>Macropus fuliginosus</i> . <i>Journal of Anatomy</i> , 2017 , 231, 921-930	2.9	11
66	Interspecific scaling of blood flow rates and arterial sizes in mammals. <i>Journal of Experimental Biology</i> , 2019 , 222,	3	11
65	Cutaneous respiration by diving beetles from underground aquifers of Western Australia (Coleoptera: Dytiscidae). <i>Journal of Experimental Biology</i> , 2019 , 222,	3	11
64	Stomata actively regulate internal aeration of the sacred lotus <i>Nelumbo nucifera</i> . <i>Plant, Cell and Environment</i> , 2014 , 37, 402-13	8.4	11
63	The biochemical basis for thermoregulation in heat-producing flowers. <i>Scientific Reports</i> , 2016 , 6, 24830	4.9	11
62	Burrowing energetics of the Giant Burrowing Cockroach <i>Macropanesthia rhinoceros</i> : an allometric study. <i>Journal of Insect Physiology</i> , 2014 , 70, 81-7	2.4	10
61	Respiratory function of the plastron in the aquatic bug <i>Aphelocheirus aestivalis</i> (Hemiptera, Aphelocheiridae). <i>Journal of Experimental Biology</i> , 2015 , 218, 2840-6	3	10
60	Blood flow for bone remodelling correlates with locomotion in living and extinct birds. <i>Journal of Experimental Biology</i> , 2014 , 217, 2956-62	3	10
59	Osmotic balance in the eggs of the turtle <i>Chelodina rugosa</i> during developmental arrest under water. <i>Physiological Zoology</i> , 1997 , 70, 301-6		10
58	In situ measurement of calling metabolic rate in an Australian mole cricket, <i>Gryllotalpa monanka</i> . <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2008 , 150, 217-21	2.6	10
57	Anatomy of the gas canal system of <i>Nelumbo nucifera</i> . <i>Aquatic Botany</i> , 2006 , 85, 147-154	1.8	10
56	Influence of Temperature and Water Potential on Survival of Hatched, Terrestrial Larvae of the Frog <i>Pseudophryne bibronii</i> . <i>Copeia</i> , 1989 , 1989, 207	1.1	10

55	Polygyny and Reproductive Effort in the Malleefowl <i>Leipoa ocellata</i> . <i>Emu</i> , 1990 , 90, 1-6	1.1	10
54	Heart position in snakes: response to "phylogeny, ecology, and heart position in snakes". <i>Physiological and Biochemical Zoology</i> , 2011 , 84, 99-101; discussion 102-6	2	9
53	Energetic costs of digestion in Australian crocodiles. <i>Australian Journal of Zoology</i> , 2011 , 59, 416	0.5	9
52	Thermologic investigations of three species of <i>Amorphophallus</i> . <i>Journal of Thermal Analysis and Calorimetry</i> , 2010 , 102, 127-136	4.1	9
51	A novel functional element in the N-terminal region of <i>Arum concinatum</i> alternative oxidase is indispensable for catalytic activity of the enzyme in HeLa cells. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2010 , 1797, 20-8	4.6	9
50	Energetics of mound-tending behaviour in the malleefowl, <i>Leipoa ocellata</i> (Megapodiidae). <i>Animal Behaviour</i> , 1993 , 45, 333-341	2.8	9
49	Flight metabolic rate of in relation to oxygen partial pressure in atmospheres of varying diffusivity and density. <i>Journal of Experimental Biology</i> , 2017 , 220, 4432-4439	3	8
48	Development of maximum metabolic rate and pulmonary diffusing capacity in the superprecocial Australian Brush Turkey <i>Alectura lathami</i> : an allometric and morphometric study. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2008 , 150, 169-75	2.6	8
47	Body size and the air-breathing organ of the Atlantic tarpon <i>Megalops atlanticus</i> . <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2008 , 150, 282-7	2.6	8
46	The Brush Turkey. <i>Scientific American</i> , 1991 , 265, 108-114	0.5	8
45	Low concentrations of methaemoglobin in marine fishes of the Great Barrier Reef, Australia. <i>Marine and Freshwater Research</i> , 1997 , 48, 303	2.2	8
44	Effect of Adding Water to Malleefowl Mounds During a Drought. <i>Emu</i> , 1984 , 84, 116-118	1.1	8
43	The oxygen supply to thermogenic flowers. <i>Plant, Cell and Environment</i> , 2015 , 38, 827-37	8.4	7
42	Can the basal metabolic rate of endotherms be explained by biophysical modeling? Response to "a new model for the body size-metabolism relationship". <i>Physiological and Biochemical Zoology</i> , 2011 , 84, 107-10	2	7
41	Energetics of Development of Embryos of the Australian Freshwater Crocodile, <i>Crocodylus johnstoni</i> : Relation to Duration of Incubation. <i>Physiological Zoology</i> , 1992 , 65, 360-378		7
40	Patterns of lung aeration in the perinatal period of domestic fowl and Brush Turkey 1984 , 319-332		7
39	Ameliorating the adverse cardiorespiratory effects of chemical immobilization by inducing general anaesthesia in sheep and goats: implications for physiological studies of large wild mammals. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2018 , 188, 991-1003	2.2	7
38	A structure-function analysis of the left ventricle. <i>Journal of Applied Physiology</i> , 2016 , 121, 900-909	3.7	6

37	Gas exchange and dive characteristics of the free-swimming backswimmer <i>Anisops deanei</i> . <i>Journal of Experimental Biology</i> , 2015 , 218, 3478-86	3	6
36	Oxygen binding properties of backswimmer (Notonectidae, Anisops) haemoglobin, determined in vivo. <i>Journal of Insect Physiology</i> , 2011 , 57, 1698-706	2.4	6
35	The importance of perivitelline fluid convection to oxygen uptake of <i>Pseudophryne bibronii</i> eggs. <i>Physiological and Biochemical Zoology</i> , 2011 , 84, 299-305	2	6
34	Non-invasive measurement of oxygen partial pressure, lateral diffusion and chorioallantoic blood flow under the avian eggshell. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2008 , 150, 258-64	2.6	6
33	Nesting climate and behaviour of Cape Barren geese (<i>Cereopsis novaehollandiae</i> Latham). <i>Australian Journal of Zoology</i> , 2001 , 49, 155	0.5	6
32	The respiratory environment of the Namib Desert Golden Mole. <i>Journal of Arid Environments</i> , 1996 , 32, 453-461	2.5	6
31	Respiration and energetics of embryonic development in a large altricial bird, the Australian pelican (<i>Pelecanus conspicillatus</i>). <i>Journal of Experimental Biology</i> , 2002 , 205, 2925-2933	3	6
30	Novel vascular plexus in the head of a sea snake (Elapidae, Hydrophiinae) revealed by high-resolution computed tomography and histology. <i>Royal Society Open Science</i> , 2019 , 6, 191099	3.3	5
29	Metabolite profiling reveals tissue- and temperature-specific metabolomic responses in thermoregulatory male florets of <i>Dracunculus vulgaris</i> (Araceae). <i>Metabolomics</i> , 2013 , 9, 919-930	4.7	5
28	Functional venous admixture in the lungs of the turtle, <i>Chrysemys scripta</i> . <i>Respiration Physiology</i> , 1983 , 53, 99-107		5
27	Bone foramen dimensions and blood flow calculation: best practices. <i>Journal of Anatomy</i> , 2020 , 236, 357-369	2.9	5
26	Calculating brain perfusion of primates. <i>Journal of Human Evolution</i> , 2019 , 128, 99-102	3.1	5
25	Femoral bone perfusion through the nutrient foramen during growth and locomotor development of western grey kangaroos (). <i>Journal of Experimental Biology</i> , 2018 , 221,	3	4
24	Calorimetric investigations of the pollination biology of the thermogenic inflorescences of the dragon lily (<i>Dracunculus vulgaris</i>) and its pollinator (<i>Protaetia cretica</i>) on Crete. <i>Thermochimica Acta</i> , 2013 , 551, 84-91	2.9	4
23	Respiration of thermogenic inflorescences of skunk cabbage <i>Symplocarpus renifolius</i> in heliox. <i>Plant, Cell and Environment</i> , 2018 , 41, 367-373	8.4	4
22	Diaphragmatic nets prevent water invasion of gas canals in <i>Nelumbo nucifera</i> . <i>Aquatic Botany</i> , 2000 , 67, 53-59	1.8	3
21	Whole-body endothermy: ancient, homologous and widespread among the ancestors of mammals, birds and crocodylians. <i>Biological Reviews</i> , 2021 ,	13.5	3
20	Ontogenetic comparisons of standard metabolism in three species of crocodylians. <i>PLoS ONE</i> , 2017 , 12, e0171082	3.7	3

19	Why vascular siphons with sub-atmospheric pressures are physiologically impossible in sauropod dinosaurs. <i>Journal of Experimental Biology</i> , 2016 , 219, 2078-9	3	3
18	Cerebral blood flow rates in recent great apes are greater than in species that had equal or larger brains. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2019 , 286, 20192208	4.4	3
17	Scaling of cardiac morphology is interrupted by birth in the developing sheep <i>Ovis aries</i> . <i>Journal of Anatomy</i> , 2019 , 235, 96-105	2.9	2
16	Scaling of morphology and ultrastructure of hearts among wild African antelope. <i>Journal of Experimental Biology</i> , 2018 , 221,	3	2
15	Behaviour and Time-Activity Budgets of Malleefowl <i>Leipoa ocellata</i> in South Australia. <i>Emu</i> , 1998 , 98, 288-296	1.1	2
14	Blood flow rate and wall shear stress in seven major cephalic arteries of humans. <i>Journal of Anatomy</i> , 2020 , 236, 522-530	2.9	2
13	Morphology of the nutrient artery and its foramen in relation to femoral bone perfusion rates of laying and non-laying hens. <i>Journal of Anatomy</i> , 2022 , 240, 94-106	2.9	2
12	Regional femoral bone blood flow rates in laying and non-laying chickens estimated with fluorescent microspheres. <i>Journal of Experimental Biology</i> , 2021 , 224,	3	2
11	Exogenous induction of thermogenesis in <i>Arum concinatum</i> by salicylic acid. <i>Functional Plant Biology</i> , 2018 , 45, 1195-1204	2.7	1
10	Analysis of cutaneous and internal gill gas exchange morphology in early larval amphibians, <i>Pseudophryne bibronii</i> and <i>Crinia georgiana</i> . <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2012 , 182, 813-20	2.2	1
9	Calorimetric investigations on mound-building birds. <i>Thermochimica Acta</i> , 1995 , 250, 319-328	2.9	1
8	Relationship between capillaries, mitochondria and maximum power of the heart: a meta-study from shrew to elephant.. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2022 , 289, 20212461	4.4	1
7	Ontogenetic scaling of the gastrointestinal tract of a marsupial foregut fermenter, the western grey kangaroo <i>Macropus fuliginosus melanops</i> . <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2021 , 191, 371-383	2.2	1
6	Extreme hypoxia and high lactate concentrations in early chicken embryos show that cutaneous oxygen uptake is limited by diffusion and metabolism is partially anaerobic. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2021 , 191, 1007-1016	2.2	0
5	The roles of diffusion and convection in ventilation of animal burrows. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2021 , 191, 1047-1058	2.2	0
4	Russell V. Baudinette Memorial Symposium. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2008 , 150, 85-89	2.6	
3	Field trials of a new physiological data logger in active fishes. <i>FASEB Journal</i> , 2008 , 22, 970.37	0.9	
2	The trade-off between maturation and growth during accelerated vertebrate development. <i>FASEB Journal</i> , 2012 , 26, 886.15	0.9	

- 1 Gas exchange and dive behaviour in the diving beetle *Platynectes decempunctatus* (Coleoptera: Dytiscidae). *Journal of Insect Physiology*, **2021**, 133, 104286 2.4