

# Roger S Seymour

## List of Publications by Year in Descending Order

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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	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> , <b>2022</b> , 289, 20212461	4.4	1
179	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> , <b>2022</b> , 240, 94-106	2.9	2
178	Whole-body endothermy: ancient, homologous and widespread among the ancestors of mammals, birds and crocodylians. <i>Biological Reviews</i> , <b>2021</b> ,	13.5	3
177	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> , <b>2021</b> , 191, 1007-1016	2.2	0
176	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> , <b>2021</b> , 191, 371-383	2.2	1
175	Gas exchange and dive behaviour in the diving beetle <i>Platynectes decempunctatus</i> (Coleoptera: Dytiscidae). <i>Journal of Insect Physiology</i> , <b>2021</b> , 133, 104286	2.4	
174	Regional femoral bone blood flow rates in laying and non-laying chickens estimated with fluorescent microspheres. <i>Journal of Experimental Biology</i> , <b>2021</b> , 224,	3	2
173	The roles of diffusion and convection in ventilation of animal burrows. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , <b>2021</b> , 191, 1047-1058	2.2	0
172	Blood flow rate and wall shear stress in seven major cephalic arteries of humans. <i>Journal of Anatomy</i> , <b>2020</b> , 236, 522-530	2.9	2
171	Bone foramen dimensions and blood flow calculation: best practices. <i>Journal of Anatomy</i> , <b>2020</b> , 236, 357-369	2.9	5
170	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> , <b>2019</b> , 6, 191099	3.3	5
169	Scaling of cardiac morphology is interrupted by birth in the developing sheep <i>Ovis aries</i> . <i>Journal of Anatomy</i> , <b>2019</b> , 235, 96-105	2.9	2
168	Interspecific scaling of blood flow rates and arterial sizes in mammals. <i>Journal of Experimental Biology</i> , <b>2019</b> , 222,	3	11
167	Cutaneous respiration by diving beetles from underground aquifers of Western Australia (Coleoptera: Dytiscidae). <i>Journal of Experimental Biology</i> , <b>2019</b> , 222,	3	11
166	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> , <b>2019</b> , 286, 20192208	4.4	3
165	Calculating brain perfusion of primates. <i>Journal of Human Evolution</i> , <b>2019</b> , 128, 99-102	3.1	5
164	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> , <b>2018</b> , 106, 155-162	2.4	12

163	Scaling of morphology and ultrastructure of hearts among wild African antelope. <i>Journal of Experimental Biology</i> , <b>2018</b> , 221,	3	2
162	Exogenous induction of thermogenesis in <i>Arum concinatum</i> by salicylic acid. <i>Functional Plant Biology</i> , <b>2018</b> , 45, 1195-1204	2.7	1
161	Femoral bone perfusion through the nutrient foramen during growth and locomotor development of western grey kangaroos (). <i>Journal of Experimental Biology</i> , <b>2018</b> , 221,	3	4
160	Respiration of thermogenic inflorescences of skunk cabbage <i>Symplocarpus renifolius</i> in heliox. <i>Plant, Cell and Environment</i> , <b>2018</b> , 41, 367-373	8.4	4
159	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> , <b>2018</b> , 188, 991-1003	2.2	7
158	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> , <b>2017</b> , 231, 921-930	2.9	11
157	Flight metabolic rate of in relation to oxygen partial pressure in atmospheres of varying diffusivity and density. <i>Journal of Experimental Biology</i> , <b>2017</b> , 220, 4432-4439	3	8
156	Ontogenetic comparisons of standard metabolism in three species of crocodilians. <i>PLoS ONE</i> , <b>2017</b> , 12, e0171082	3.7	3
155	Fossil skulls reveal that blood flow rate to the brain increased faster than brain volume during human evolution. <i>Royal Society Open Science</i> , <b>2016</b> , 3, 160305	3.3	27
154	A structure-function analysis of the left ventricle. <i>Journal of Applied Physiology</i> , <b>2016</b> , 121, 900-909	3.7	6
153	Why vascular siphons with sub-atmospheric pressures are physiologically impossible in sauropod dinosaurs. <i>Journal of Experimental Biology</i> , <b>2016</b> , 219, 2078-9	3	3
152	Cardiovascular Physiology of Dinosaurs. <i>Physiology</i> , <b>2016</b> , 31, 430-441	9.8	14
151	The biochemical basis for thermoregulation in heat-producing flowers. <i>Scientific Reports</i> , <b>2016</b> , 6, 24830	4.9	11
150	The oxygen supply to thermogenic flowers. <i>Plant, Cell and Environment</i> , <b>2015</b> , 38, 827-37	8.4	7
149	Scaling of cerebral blood perfusion in primates and marsupials. <i>Journal of Experimental Biology</i> , <b>2015</b> , 218, 2631-40	3	17
148	Biphasic Allometry of Cardiac Growth in the Developing Kangaroo <i>Macropus fuliginosus</i> . <i>Physiological and Biochemical Zoology</i> , <b>2015</b> , 88, 216-25	2	16
147	Transcriptome analysis of thermogenic <i>Arum concinatum</i> reveals the molecular components of floral scent production. <i>Scientific Reports</i> , <b>2015</b> , 5, 8753	4.9	21
146	Scaling of left ventricle cardiomyocyte ultrastructure across development in the kangaroo <i>Macropus fuliginosus</i> . <i>Journal of Experimental Biology</i> , <b>2015</b> , 218, 1767-76	3	12

145	Gas exchange and dive characteristics of the free-swimming backswimmer <i>Anisops deanei</i> . <i>Journal of Experimental Biology</i> , <b>2015</b> , 218, 3478-86	3	6
144	Respiratory function of the plastron in the aquatic bug <i>Aphelocheirus aestivalis</i> (Hemiptera, Aphelocheiridae). <i>Journal of Experimental Biology</i> , <b>2015</b> , 218, 2840-6	3	10
143	Stomata actively regulate internal aeration of the sacred lotus <i>Nelumbo nucifera</i> . <i>Plant, Cell and Environment</i> , <b>2014</b> , 37, 402-13	8.4	11
142	The role of gravity in the evolution of mammalian blood pressure. <i>Evolution; International Journal of Organic Evolution</i> , <b>2014</b> , 68, 901-8	3.8	38
141	Burrowing energetics of the Giant Burrowing Cockroach <i>Macropanesthia rhinoceros</i> : an allometric study. <i>Journal of Insect Physiology</i> , <b>2014</b> , 70, 81-7	2.4	10
140	Blood flow for bone remodelling correlates with locomotion in living and extinct birds. <i>Journal of Experimental Biology</i> , <b>2014</b> , 217, 2956-62	3	10
139	Metabolite profiling reveals tissue- and temperature-specific metabolomic responses in thermoregulatory male florets of <i>Dracunculus vulgaris</i> (Araceae). <i>Metabolomics</i> , <b>2013</b> , 9, 919-930	4.7	5
138	A review of the energetics of pollination biology. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , <b>2013</b> , 183, 867-76	2.2	28
137	Scaling of standard metabolic rate in estuarine crocodiles <i>Crocodylus porosus</i> . <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , <b>2013</b> , 183, 491-500	2.2	15
136	Physical gills in diving insects and spiders: theory and experiment. <i>Journal of Experimental Biology</i> , <b>2013</b> , 216, 164-70	3	48
135	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> , <b>2013</b> , 551, 84-91	2.9	4
134	Maximal aerobic and anaerobic power generation in large crocodiles versus mammals: implications for dinosaur gigantothermy. <i>PLoS ONE</i> , <b>2013</b> , 8, e69361	3.7	23
133	The trade-off between maturation and growth during accelerated development in frogs. <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , <b>2012</b> , 163, 95-102	2.6	28
132	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> , <b>2012</b> , 207, 107-118	1.9	47
131	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> , <b>2012</b> , 182, 813-20	2.2	1
130	Gravity and the evolution of cardiopulmonary morphology in snakes. <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , <b>2012</b> , 161, 230-42	2.6	38
129	Blood flow to long bones indicates activity metabolism in mammals, reptiles and dinosaurs. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2012</b> , 279, 451-6	4.4	41
128	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> , <b>2012</b> , 215, 3317-23	3	12

127	Symmorphosis and the insect respiratory system: a comparison between flight and hopping muscle. <i>Journal of Experimental Biology</i> , <b>2012</b> , 215, 3324-33	3	16
126	The trade-off between maturation and growth during accelerated vertebrate development. <i>FASEB Journal</i> , <b>2012</b> , 26, 886.15	0.9	
125	Heart position in snakes: response to "phylogeny, ecology, and heart position in snakes". <i>Physiological and Biochemical Zoology</i> , <b>2011</b> , 84, 99-101; discussion 102-6	2	9
124	The diving bell and the spider: the physical gill of <i>Argyroneta aquatica</i> . <i>Journal of Experimental Biology</i> , <b>2011</b> , 214, 2175-81	3	75
123	Oxygen binding properties of backswimmer (Notonectidae, Anisops) haemoglobin, determined in vivo. <i>Journal of Insect Physiology</i> , <b>2011</b> , 57, 1698-706	2.4	6
122	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> , <b>2011</b> , 181, 43-52	2.2	21
121	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> , <b>2011</b> , 181, 941-52	2.2	19
120	Symmorphosis and the insect respiratory system: allometric variation. <i>Journal of Experimental Biology</i> , <b>2011</b> , 214, 3225-37	3	25
119	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> , <b>2011</b> , 84, 107-10	2	7
118	Energetic costs of digestion in Australian crocodiles. <i>Australian Journal of Zoology</i> , <b>2011</b> , 59, 416	0.5	9
117	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> , <b>2011</b> , 214, 3218-24	3	24
116	The regulation index: a new method for assessing the relationship between oxygen consumption and environmental oxygen. <i>Physiological and Biochemical Zoology</i> , <b>2011</b> , 84, 522-32	2	51
115	The importance of perivitelline fluid convection to oxygen uptake of <i>Pseudophryne bibronii</i> eggs. <i>Physiological and Biochemical Zoology</i> , <b>2011</b> , 84, 299-305	2	6
114	Scaling of heat production by thermogenic flowers: limits to floral size and maximum rate of respiration. <i>Plant, Cell and Environment</i> , <b>2010</b> , 33, 1474-85	8.4	31
113	Respiration and temperature patterns in thermogenic flowers of <i>Magnolia ovata</i> under natural conditions in Brazil. <i>Functional Plant Biology</i> , <b>2010</b> , 37, 870	2.7	17
112	Thermal clamping of temperature-regulating flowers reveals the precision and limits of the biochemical regulatory mechanism. <i>Planta</i> , <b>2010</b> , 231, 1291-300	4.7	14
111	Thermologic investigations of three species of <i>Amorphophallus</i> . <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2010</b> , 102, 127-136	4.1	9
110	Compressible gas gills of diving insects: measurements and models. <i>Journal of Insect Physiology</i> , <b>2010</b> , 56, 470-9	2.4	19

109	A novel functional element in the N-terminal region of Arum concinatum alternative oxidase is indispensable for catalytic activity of the enzyme in HeLa cells. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>2010</b> , 1797, 20-8	4.6	9
108	Raising the sauropod neck: it costs more to get less. <i>Biology Letters</i> , <b>2009</b> , 5, 317-9	3.6	23
107	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> , <b>2009</b> , 212, 2960-8	3.0	31
106	Sauropods kept their heads down. <i>Science</i> , <b>2009</b> , 323, 1671-2; author reply 1671-2	33.3	14
105	Thermogenesis of three species of Arum from Crete. <i>Plant, Cell and Environment</i> , <b>2009</b> , 32, 1467-76	8.4	26
104	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> , <b>2009</b> , 63, 2658-67	3.8	129
103	Effects of floral thermogenesis on pollen function in Asian skunk cabbage <i>Symplocarpus renifolius</i> . <i>Biology Letters</i> , <b>2009</b> , 5, 568-70	3.6	32
102	Floral thermogenesis of three species of <i>Hydnora</i> ( <i>Hydnoraceae</i> ) in Africa. <i>Annals of Botany</i> , <b>2009</b> , 104, 823-32	4.1	31
101	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 &amp; Integrative Physiology</i> , <b>2008</b> , 150, 169-75	2.6	8
100	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 &amp; Integrative Physiology</i> , <b>2008</b> , 150, 258-64	2.6	6
99	In situ measurement of calling metabolic rate in an Australian mole cricket, <i>Gryllotalpa monanka</i> . <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , <b>2008</b> , 150, 217-21	2.6	10
98	Body size and the air-breathing organ of the Atlantic tarpon <i>Megalops atlanticus</i> . <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , <b>2008</b> , 150, 282-7	2.6	8
97	Russell V. Baudinette Memorial Symposium. <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , <b>2008</b> , 150, 85-89	2.6	
96	Respiration of thermogenic inflorescences of <i>Philodendron melinonii</i> : natural pattern and responses to experimental temperatures. <i>Journal of Experimental Botany</i> , <b>2008</b> , 59, 1353-62	7	23
95	Haemoglobin as a buoyancy regulator and oxygen supply in the backswimmer ( <i>Notonectidae</i> , <i>Anisops</i> ). <i>Journal of Experimental Biology</i> , <b>2008</b> , 211, 3790-9	3	22
94	Field trials of a new physiological data logger in active fishes. <i>FASEB Journal</i> , <b>2008</b> , 22, 970.37	0.9	
93	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> , <b>2007</b> , 177, 579-87	2.2	17
92	Effect of aerial O <sub>2</sub> partial pressure on bimodal gas exchange and air-breathing behaviour in <i>Trichogaster leeri</i> . <i>Journal of Experimental Biology</i> , <b>2007</b> , 210, 2311-9	3	25

91	Metabolic scope, swimming performance and the effects of hypoxia in the mulloway, <i>Argyrosomus japonicus</i> (Pisces: Sciaenidae). <i>Aquaculture</i> , <b>2007</b> , 270, 358-368	4.4	68
90	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> , <b>2006</b> , 209, 2103-13	3	19
89	The role of thermogenesis in the pollination biology of the Amazon waterlily <i>Victoria amazonica</i> . <i>Annals of Botany</i> , <b>2006</b> , 98, 1129-35	4.1	57
88	The scaling and temperature dependence of vertebrate metabolism. <i>Biology Letters</i> , <b>2006</b> , 2, 125-7	3.6	269
87	Anatomy of the gas canal system of <i>Nelumbo nucifera</i> . <i>Aquatic Botany</i> , <b>2006</b> , 85, 147-154	1.8	10
86	Contribution of the alternative pathway to respiration during thermogenesis in flowers of the sacred lotus. <i>Plant Physiology</i> , <b>2006</b> , 140, 1367-73	6.6	60
85	Diving insects boost their buoyancy bubbles. <i>Nature</i> , <b>2006</b> , 441, 171	50.4	31
84	Allometric scaling of mammalian metabolism. <i>Journal of Experimental Biology</i> , <b>2005</b> , 208, 1611-9	3	287
83	Sample size and mass range effects on the allometric exponent of basal metabolic rate. <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , <b>2005</b> , 142, 74-8	2.6	46
82	Developmental allometry of pulmonary structure and function in the altricial Australian pelican <i>Pelecanus conspicillatus</i> . <i>Journal of Experimental Biology</i> , <b>2004</b> , 207, 2663-9	3	12
81	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> , <b>2004</b> , 207, 1305-11	3	26
80	Respiration and thermogenesis by cones of the Australian cycad <i>Macrozamia machinii</i> . <i>Functional Ecology</i> , <b>2004</b> , 18, 925-930	5.6	24
79	Dynamics and precision of thermoregulatory responses of eastern skunk cabbage <i>Symplocarpus foetidus</i> . <i>Plant, Cell and Environment</i> , <b>2004</b> , 27, 1014-1022	8.4	39
78	Evidence for endothermic ancestors of crocodiles at the stem of archosaur evolution. <i>Physiological and Biochemical Zoology</i> , <b>2004</b> , 77, 1051-67	2	120
77	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> , <b>2004</b> , 77, 929-41	2	134
76	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> , <b>2003</b> , 17, 886-894	5.6	66
75	Environmental biology: heat reward for insect pollinators. <i>Nature</i> , <b>2003</b> , 426, 243-4	50.4	157
74	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> , <b>2003</b> , 76, 60-71	2	17

73	Mammalian basal metabolic rate is proportional to body mass <sup>2/3</sup> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2003</b> , 100, 4046-9	11.5	523
72	Effect of local shell conductance on the vascularisation of the chicken chorioallantoic membrane. <i>Respiratory Physiology and Neurobiology</i> , <b>2003</b> , 134, 155-67	2.8	23
71	Ubiquitous expression of a gene encoding for uncoupling protein isolated from the thermogenic inflorescence of the dead horse arum <i>Heliconia</i> <i>musivorus</i> . <i>Journal of Experimental Botany</i> , <b>2003</b> , 54, 1113-4	7	18
70	Effect of regional changes to shell conductance on oxygen consumption and growth of chicken embryos. <i>Respiration Physiology</i> , <b>2002</b> , 129, 385-95		17
69	Respiration and energetics of embryonic development in a large altricial bird, the Australian pelican ( <i>Pelecanus conspicillatus</i> ). <i>Journal of Experimental Biology</i> , <b>2002</b> , 205, 2925-2933	3	6
68	Biophysics and physiology of temperature regulation in thermogenic flowers. <i>Bioscience Reports</i> , <b>2001</b> , 21, 223-36	4.1	77
67	Diffusion pathway for oxygen into highly thermogenic florets of the arum lily <i>Philodendron selloum</i> . <i>Journal of Experimental Botany</i> , <b>2001</b> , 52, 1465-72	7	16
66	Nesting climate and behaviour of Cape Barren geese ( <i>Cereopsis novaehollandiae</i> Latham). <i>Australian Journal of Zoology</i> , <b>2001</b> , 49, 155	0.5	6
65	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> , <b>2000</b> , 73, 829-40	2	25
64	Model analogues in the study of cephalic circulation. <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , <b>2000</b> , 125, 517-24	2.6	12
63	Respiration of the eggs of the giant cuttlefish <i>Sepia apama</i> . <i>Marine Biology</i> , <b>2000</b> , 136, 863-870	2.5	67
62	The principle of laplace and scaling of ventricular wall stress and blood pressure in mammals and birds. <i>Physiological and Biochemical Zoology</i> , <b>2000</b> , 73, 389-405	2	90
61	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> , <b>2000</b> , 73, 501-7	2	43
60	Hearts, neck posture and metabolic intensity of sauropod dinosaurs. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2000</b> , 267, 1883-7	4.4	28
59	Stigma peroxidase activity in association with thermogenesis in <i>Nelumbo nucifera</i> . <i>Aquatic Botany</i> , <b>2000</b> , 67, 155-159	1.8	16
58	Diaphragmatic nets prevent water invasion of gas canals in <i>Nelumbo nucifera</i> . <i>Aquatic Botany</i> , <b>2000</b> , 67, 53-59	1.8	3
57	Respiration of Aquatic and Terrestrial Amphibian Embryos. <i>American Zoologist</i> , <b>1999</b> , 39, 261-270		37
56	Direct and indirect calorimetry of thermogenic flowers of the sacred lotus, <i>Nelumbo nucifera</i> . <i>Thermochimica Acta</i> , <b>1998</b> , 309, 5-16	2.9	24



55	Physiological temperature regulation by flowers of the sacred lotus. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>1998</b> , 353, 935-943	5.8	59
54	Heat production by sacred lotus flowers depends on ambient temperature, not light cycle. <i>Journal of Experimental Botany</i> , <b>1998</b> , 49, 1213-1217	7	32
53	Behaviour and Time-Activity Budgets of Malleefowl <i>Leipoa ocellata</i> in South Australia. <i>Emu</i> , <b>1998</b> , 98, 288-296	1.1	2
52	Osmotic balance in the eggs of the turtle <i>Chelodina rugosa</i> during developmental arrest under water. <i>Physiological Zoology</i> , <b>1997</b> , 70, 301-6		10
51	Plants That Warm Themselves. <i>Scientific American</i> , <b>1997</b> , 276, 104-109	0.5	37
50	EVOLUTION OF THE AMNIOTE EGG <b>1997</b> , 265-290		28
49	Heat-producing flowers. <i>Endeavour</i> , <b>1997</b> , 21, 125-129	0.5	105
48	Low concentrations of methaemoglobin in marine fishes of the Great Barrier Reef, Australia. <i>Marine and Freshwater Research</i> , <b>1997</b> , 48, 303	2.2	8
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43	Respiration of Amphibian Eggs. <i>Physiological Zoology</i> , <b>1995</b> , 68, 1-25		86
42	Calorimetric investigations on mound-building birds. <i>Thermochimica Acta</i> , <b>1995</b> , 250, 319-328	2.9	1
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40	Temperature Regulation in the Incubation Mounds of the Australian Brush-Turkey. <i>Condor</i> , <b>1992</b> , 94, 134-150	2.1	26
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37	Analysis of heat production in a thermogenic arum lily, <i>Philodendron selloum</i> , by three calorimetric methods. <i>Thermochimica Acta</i> , <b>1991</b> , 193, 91-97	2.9	12
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35	The Brush Turkey. <i>Scientific American</i> , <b>1991</b> , 265, 108-114	0.5	8
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32	Metabolic Cost of Development in Terrestrial Frog Eggs ( <i>Pseudophryne bibronii</i> ). <i>Physiological Zoology</i> , <b>1991</b> , 64, 688-696		21
31	Patterns of Metabolic Rate in Embryonic Crocodylians <i>Crocodylus johnstoni</i> and <i>Crocodylus porosus</i> . <i>Physiological Zoology</i> , <b>1990</b> , 63, 334-352		37
30	Polygyny and Reproductive Effort in the Malleefowl <i>Leipoa ocellata</i> . <i>Emu</i> , <b>1990</b> , 90, 1-6	1.1	10
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27	Aeration of the shell membranes of avian eggs. <i>Respiration Physiology</i> , <b>1988</b> , 71, 101-15		25
26	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> , <b>1988</b> , 61, 470-474		29
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24	Scaling of Cardiovascular Physiology in Snakes. <i>American Zoologist</i> , <b>1987</b> , 27, 97-109		55
23	Effect of Eggshell Thinning on Water Vapor Conductance of Malleefowl Eggs. <i>Condor</i> , <b>1987</b> , 89, 453	2.1	41
22	Blood flow uphill and downhill: does a siphon facilitate circulation above the heart?. <i>Comparative Biochemistry and Physiology A, Comparative Physiology</i> , <b>1987</b> , 88, 167-70		50
21	Water relations of buried eggs of mound building birds. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , <b>1987</b> , 157, 413-422	2.2	32
20	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> , <b>1987</b> , 157, 477-481	2.2	37

19	Gas exchange in the incubation mounds of megapode birds. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , <b>1986</b> , 156, 773-782	2.2	47
18	Energy Conservation during the Delayed-Hatching Period in the Frog <i>Pseudophryne bibroni</i> . <i>Physiological Zoology</i> , <b>1985</b> , 58, 491-496		45
17	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> , <b>1984</b> , 57, 444-456		54
16	Respiratory gas exchange during thermogenesis in <i>Philodendron selloum</i> Koch. <i>Planta</i> , <b>1984</b> , 161, 229-324.7		15
15	Patterns of lung aeration in the perinatal period of domestic fowl and Brush Turkey <b>1984</b> , 319-332		7
14	Effect of Adding Water to Malleefowl Mounds During a Drought. <i>Emu</i> , <b>1984</b> , 84, 116-118	1.1	8
13	Respiration and heat production by the inflorescence of <i>Philodendron selloum</i> Koch. <i>Planta</i> , <b>1983</b> , 157, 336-43	4.7	67
12	Functional venous admixture in the lungs of the turtle, <i>Chrysemys scripta</i> . <i>Respiration Physiology</i> , <b>1983</b> , 53, 99-107		5
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10	Adaptations to Underground Nesting in Birds and Reptiles. <i>American Zoologist</i> , <b>1980</b> , 20, 437-447		76
9	Dinosaur eggs: gas conductance through the shell, water loss during incubation and clutch size. <i>Paleobiology</i> , <b>1979</b> , 5, 1-11	2.6	72
8	Gas Tensions and Blood Distribution in Sea Snakes at Surface Pressure and at Simulated Depth. <i>Physiological Zoology</i> , <b>1978</b> , 51, 388-407		25
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6	Blood pressure in snakes from different habitats. <i>Nature</i> , <b>1976</b> , 264, 664-6	50.4	60
5	Pulmonary and cutaneous oxygen uptake in sea snakes and a file snake. <i>Comparative Biochemistry and Physiology A, Comparative Physiology</i> , <b>1975</b> , 51, 399-405		36
4	Thermal relations, water loss and oxygen consumption of a North American tarantula. <i>Comparative Biochemistry and Physiology A, Comparative Physiology</i> , <b>1973</b> , 44, 83-96		45
3	Physiological Correlates of Forced Activity and Burrowing in the Spadefoot Toad, <i>Scaphiopus hammondii</i> . <i>Copeia</i> , <b>1973</b> , 1973, 103	1.1	64
2	Pattern of respiration by intact inflorescences of the thermogenic arum lily <i>Philodendron selloum</i>		12

- 1 Switching off the heater: influence of ambient temperature on thermoregulation by eastern skunk cabbage *Symplocarpus foetidus*

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