Roger S Seymour

List of Publications by Year
in descending order

180	7,063	57631	76769
papers	citations	44 h-index	74 g-index

182	182	182	4937
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Mammalian basal metabolic rate is proportional to body mass2/3. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 4046-4049.	3.3	645
2	Allometric scaling of mammalian metabolism. Journal of Experimental Biology, 2005, 208, 1611-1619.	0.8	352
3	The scaling and temperature dependence of vertebrate metabolism. Biology Letters, 2006, 2, 125-127.	1.0	341
4	Heat reward for insect pollinators. Nature, 2003, 426, 243-244.	13.7	189
5	Does Basal Metabolic Rate Contain a Useful Signal? Mammalian BMR Allometry and Correlations with a Selection of Physiological, Ecological, and Lifeâ€History Variables. Physiological and Biochemical Zoology, 2004, 77, 929-941.	0.6	151
6	PHYLOGENETICALLY INFORMED ANALYSIS OF THE ALLOMETRY OF MAMMALIAN BASAL METABOLIC RATE SUPPORTS NEITHER GEOMETRIC NOR QUARTER-POWER SCALING. Evolution; International Journal of Organic Evolution, 2009, 63, 2658-2667.	1.1	150
7	Evidence for Endothermic Ancestors of Crocodiles at the Stem of Archosaur Evolution. Physiological and Biochemical Zoology, 2004, 77, 1051-1067.	0.6	143
8	Heat-producing flowers. Endeavour, 1997, 21, 125-129.	0.1	117
9	The diving bell and the spider: the physical gill of Argyroneta aquatica. Journal of Experimental Biology, 2011, 214, 2175-2181.	0.8	113
10	The Principle of Laplace and Scaling of Ventricular Wall Stress and Blood Pressure in Mammals and Birds. Physiological and Biochemical Zoology, 2000, 73, 389-405.	0.6	111
11	Respiration of Amphibian Eggs. Physiological Zoology, 1995, 68, 1-25.	1.5	110
12	The Echidna. Scientific American, 1991, 264, 96-103.	1.0	101
13	Adaptations to Underground Nesting in Birds and Reptiles. American Zoologist, 1980, 20, 437-447.	0.7	99
14	Physiological Correlates of Forced Activity and Burrowing in the Spadefoot Toad, Scaphiopus hammondii. Copeia, 1973, 1973, 103.	1.4	92
15	Thermoregulating lotus flowers. Nature, 1996, 383, 305-305.	13.7	92
16	Dinosaur eggs: gas conductance through the shell, water loss during incubation and clutch size. Paleobiology, 1979, 5, 1-11.	1.3	86
17	Biophysics and Physiology of Temperature Regulation in Thermogenic Flowers. Bioscience Reports, 2001, 21, 223-236.	1.1	86
18	Metabolic scope, swimming performance and the effects of hypoxia in the mulloway, Argyrosomus japonicus (Pisces: Sciaenidae). Aquaculture, 2007, 270, 358-368.	1.7	80

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19	Respiration and heat production by the inflorescence of Philodendron selloum Koch. Planta, 1983, 157, 336-343.	1.6	75
20	Respiration of the eggs of the giant cuttlefish Sepia apama. Marine Biology, 2000, 136, 863-870.	0.7	74
21	Thermogenesis and respiration of inflorescences of the dead horse arum Helicodiceros muscivorus , a pseudo-thermoregulatory aroid associated with fly pollination. Functional Ecology, 2003, 17, 886-894.	1.7	73
22	The Role of Thermogenesis in the Pollination Biology of the Amazon Waterlily Victoria amazonica. Annals of Botany, 2006, 98, 1129-1135.	1.4	71
23	Physiological temperature regulation by flowers of the sacred lotus. Philosophical Transactions of the Royal Society B: Biological Sciences, 1998, 353, 935-943.	1.8	69
24	Blood pressure in snakes from different habitats. Nature, 1976, 264, 664-666.	13.7	67
25	Energetics of Embryonic Development in the Megapode Birds, Mallee Fowl Leipoa Ocellata and Brush Turkey Alectura lathami. Physiological Zoology, 1984, 57, 444-456.	1.5	66
26	Contribution of the Alternative Pathway to Respiration during Thermogenesis in Flowers of the Sacred Lotus. Plant Physiology, 2006, 140, 1367-1373.	2.3	66
27	The Regulation Index: A New Method for Assessing the Relationship between Oxygen Consumption and Environmental Oxygen. Physiological and Biochemical Zoology, 2011, 84, 522-532.	0.6	65
28	Influence of Environmental P<scp>o</scp>₂ on Embryonic Oxygen Consumption, Rate of Development, and Hatching in the Frog Pseudophryne bibroni. Physiological Zoology, 1988, 61, 475-482.	1.5	65
29	Scaling of Cardiovascular Physiology in Snakes. American Zoologist, 1987, 27, 97-109.	0.7	61
30	Physical gills in diving insects and spiders: theory and experiment. Journal of Experimental Biology, 2013, 216, 164-170.	0.8	60
31	Pollination ecology of Magnolia ovata may explain the overall large flower size of the genus. Flora: Morphology, Distribution, Functional Ecology of Plants, 2012, 207, 107-118.	0.6	59
32	Blood flow to long bones indicates activity metabolism in mammals, reptiles and dinosaurs. Proceedings of the Royal Society B: Biological Sciences, 2012, 279, 451-456.	1.2	58
33	Energy Conservation during the Delayed-Hatching Period in the Frog Pseudophryne bibroni. Physiological Zoology, 1985, 58, 491-496.	1.5	57
34	Gas exchange in the incubation mounds of megapode birds. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 1986, 156, 773-782.	0.7	56
35	Sample size and mass range effects on the allometric exponent of basal metabolic rate. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2005, 142, 74-78.	0.8	54
36	Plants That Warm Themselves. Scientific American, 1997, 276, 104-109.	1.0	52

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37	Thermal relations, water loss and oxygen consumption of a North American tarantula. Comparative Biochemistry and Physiology A, Comparative Physiology, 1973, 44, 83-96.	0.7	51
38	Effect of Eggshell Thinning on Water Vapor Conductance of Malleefowl Eggs. Condor, 1987, 89, 453.	0.7	51
39	Blood flow uphill and downhill: Does a siphon facilitate circulation above the heart?. Comparative Biochemistry and Physiology A, Comparative Physiology, 1987, 88, 167-170.	0.7	51
40	Gravity and the evolution of cardiopulmonary morphology in snakes. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2012, 161, 230-242.	0.8	51
41	Polyunsaturated dietary lipids lower the selected body temperature of a lizard. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 1992, 162, 1-4.	0.7	48
42	THE ROLE OF GRAVITY IN THE EVOLUTION OF MAMMALIAN BLOOD PRESSURE. Evolution; International Journal of Organic Evolution, 2014, 68, 901-908.	1.1	47
43	Influence of Environmental Oxygen on Development and Hatching of Aquatic Eggs of the Australian Frog, Crinia georgiana. Physiological and Biochemical Zoology, 2000, 73, 501-507.	0.6	46
44	Diving insects boost their buoyancy bubbles. Nature, 2006, 441, 171-171.	13.7	45
45	A review of the energetics of pollination biology. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2013, 183, 867-876.	0.7	45
46	Pulmonary and cutaneous oxygen uptake in sea snakes and a file snake. Comparative Biochemistry and Physiology A, Comparative Physiology, 1975, 51, 399-405.	0.7	44
47	Respiration of Aquatic and Terrestrial Amphibian Embryos. American Zoologist, 1999, 39, 261-270.	0.7	44
48	Dynamics and precision of thermoregulatory responses of eastern skunk cabbage Symplocarpus foetidus. Plant, Cell and Environment, 2004, 27, 1014-1022.	2.8	44
49	Embryonic Respiration and Oxygen Distribution in Foamy and Nonfoamy Egg Masses of the Frog Limnodynastes tasmaniensis. Physiological Zoology, 1991, 64, 1322-1340.	1.5	43
50	EVOLUTION OF THE AMNIOTE EGG. , 1997, , 265-290.		43
51	Effects of floral thermogenesis on pollen function in Asian skunk cabbage Symplocarpus renifolius. Biology Letters, 2009, 5, 568-570.	1.0	42
52	Wholeâ€body endothermy: ancient, homologous and widespread among the ancestors of mammals, birds and crocodylians. Biological Reviews, 2022, 97, 766-801.	4.7	42
53	Gas exchange through the jelly capsule of the terrestrial eggs of the frog,Pseudophryne bibroni. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 1987, 157, 477-481.	0.7	41
54	Patterns of Metabolic Rate in Embryonic CrocodiliansCrocodylus johnstoniandCrocodylus porosus. Physiological Zoology, 1990, 63, 334-352.	1.5	41

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55	Endothermy of dynastine scarab beetles (Cyclocephala colasi)associated with pollination biology of a thermogenic arum lily(Philodendron solimoesense). Journal of Experimental Biology, 2009, 212, 2960-2968.	0.8	40
56	Scaling of heat production by thermogenic flowers: limits to floral size and maximum rate of respiration. Plant, Cell and Environment, 2010, 33, no-no.	2.8	40
57	Hearts, neck posture and metabolic intensity of sauropod dinosaurs. Proceedings of the Royal Society B: Biological Sciences, 2000, 267, 1883-1887.	1.2	39
58	Fossil skulls reveal that blood flow rate to the brain increased faster than brain volume during human evolution. Royal Society Open Science, 2016, 3, 160305.	1.1	39
59	Water relations of buried eggs of mound building birds. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 1987, 157, 413-422.	0.7	38
60	Floral thermogenesis of three species of Hydnora (Hydnoraceae) in Africa. Annals of Botany, 2009, 104, 823-832.	1.4	38
61	Heat production by sacred lotus flowers depends on ambient temperature, not light cycle. Journal of Experimental Botany, 1998, 49, 1213-1217.	2.4	37
62	Dinosaurs, endothermy and blood pressure. Nature, 1976, 262, 207-208.	13.7	35
63	Influence of Water Potential on Growth and Survival of the Embryo, and Gas Conductance of the Egg, in a Terrestrial Breeding Frog, Pseudophryne bibroni. Physiological Zoology, 1988, 61, 470-474.	1.5	34
64	Gas Conductance of the Jelly Capsule of Terrestrial Frog Eggs Correlates with Embryonic Stage, Not Metabolic Demand or Ambient P<scp>o</scp>₂. Physiological Zoology, 1991, 64, 673-687.	1.5	34
65	Temperature Regulation in the Incubation Mounds of the Australian Brush-Turkey. Condor, 1992, 94, 134-150.	0.7	32
66	The trade-off between maturation and growth during accelerated development in frogs. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2012, 163, 95-102.	0.8	32
67	Symmorphosis and the insect respiratory system: allometric variation. Journal of Experimental Biology, 2011, 214, 3225-3237.	0.8	31
68	Transcriptome analysis of thermogenic Arum concinnatum reveals the molecular components of floral scent production. Scientific Reports, 2015, 5, 8753.	1.6	31
69	Direct and indirect calorimetry of thermogenic flowers of the sacred lotus, Nelumbo nucifera. Thermochimica Acta, 1998, 309, 5-16.	1.2	30
70	Thermogenesis of three species of Arum from Crete. Plant, Cell and Environment, 2009, 32, 1467-1476.	2.8	30
71	Effect of aerial O2 partial pressure on bimodal gas exchange and air-breathing behaviour in Trichogaster leeri. Journal of Experimental Biology, 2007, 210, 2311-2319.	0.8	29
72	Scaling of resting and maximum hopping metabolic rate throughout the life cycle of the locust Locusta migratoria. Journal of Experimental Biology, 2011, 214, 3218-3224.	0.8	29

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73	Aeration of the shell membranes of avian eggs. Respiration Physiology, 1988, 71, 101-115.	2.8	28
74	Effects of Temperature on Energy Cost and Timing of Embryonic and Larval Development of the Terrestrially Breeding Moss Frog,Bryobatrachus nimbus. Physiological and Biochemical Zoology, 2000, 73, 829-840.	0.6	28
75	Respiration and thermogenesis by cones of the Australian cycad Macrozamia machinii. Functional Ecology, 2004, 18, 925-930.	1.7	28
76	Gas Tensions and Blood Distribution in Sea Snakes at Surface Pressure and at Simulated Depth. Physiological Zoology, 1978, 51, 388-407.	1.5	28
77	Effect of local shell conductance on the vascularisation of the chicken chorioallantoic membrane. Respiratory Physiology and Neurobiology, 2003, 134, 155-167.	0.7	27
78	Independent effects of heartâ€“head distance and caudal blood pooling on blood pressure regulation in aquatic and terrestrial snakes. Journal of Experimental Biology, 2004, 207, 1305-1311.	0.8	27
79	Respiration of thermogenic inflorescences of Philodendron melinonii: natural pattern and responses to experimental temperatures. Journal of Experimental Botany, 2008, 59, 1353-1362.	2.4	27
80	Oxygen Uptake by the Aquatic Eggs of the Australian Frog Crinia georgiana. Physiological Zoology, 1995, 68, 206-222.	1.5	25
81	Haemoglobin as a buoyancy regulator and oxygen supply in the backswimmer(Notonectidae,) Tj ETQq1 1 0.784314 rgBT /Overlock 10	0.8	25
82	Raising the sauropod neck: it costs more to get less. Biology Letters, 2009, 5, 317-319.	1.0	25
83	The energy cost of embryonic development in fishes and amphibians, with emphasis on new data from the Australian lungfish, Neoceratodus forsteri. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2011, 181, 43-52.	0.7	25
84	Maximal Aerobic and Anaerobic Power Generation in Large Crocodiles versus Mammals: Implications for Dinosaur Gigantothermy. PLoS ONE, 2013, 8, e69361.	1.1	25
85	Metabolic Cost of Development in Terrestrial Frog Eggs (Pseudophryne bibronii). Physiological Zoology, 1991, 64, 688-696.	1.5	25
86	Continuous measurement of oxygen tensions in the air-breathing organ of Pacific tarpon (Megalops) Tj ETQq0 0 0 rgBT /Overlock 10 Tf Biochemical, Systemic, and Environmental Physiology, 2007, 177, 579-587.	0.7	23
87	Effects of variation in total and regional shell conductance on air cell gas tensions and regional gas exchange in chicken eggs. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 1988, 158, 229-236.	0.7	22
88	Effect of regional changes to shell conductance on oxygen consumption and growth of chicken embryos. Respiration Physiology, 2002, 129, 385-395.	2.8	22
89	Balancing the competing requirements of saltatorial and fossorial specialisation: burrowing costs in the spinifex hopping mouse, Notomys alexis. Journal of Experimental Biology, 2006, 209, 2103-2113.	0.8	22
90	Effects of environmental oxygen on development and respiration of Australian lungfish (Neoceratodus forsteri) embryos. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2011, 181, 941-952.	0.7	22

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91	Scaling of standard metabolic rate in estuarine crocodiles Crocodylus porosus. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2013, 183, 491-500.	0.7	21
92	Oxygen Uptake by Embryos in Gelatinous Egg Masses of Rana sylvatica: The Roles of Diffusion and Convection. Copeia, 1995, 1995, 626.	1.4	20
93	Compressible gas gills of diving insects: Measurements and models. Journal of Insect Physiology, 2010, 56, 470-479.	0.9	20
94	Stomata actively regulate internal aeration of the sacred lotus <scp>N</scp>elumbo nucifera. Plant, Cell and Environment, 2014, 37, 402-413.	2.8	20
95	Scaling of cerebral blood perfusion in primates and marsupials. Journal of Experimental Biology, 2015, 218, 2631-40.	0.8	20
96	Cardiovascular Physiology of Dinosaurs. Physiology, 2016, 31, 430-441.	1.6	20
97	Switching off the heater: influence of ambient temperature on thermoregulation by eastern skunk cabbage Symplocarpus foetidus. , 0, .		20
98	The Effects of Nest Temperature, Nest Substrate, and Clutch Size on the Oxygenation of Embryos and Larvae of the Australian Moss Frog, Bryobatrachus nimbus. Physiological and Biochemical Zoology, 2003, 76, 60-71.	0.6	19
99	Ubiquitous expression of a gene encoding for uncoupling protein isolated from the thermogenic inflorescence of the dead horse arum Helicodiceros muscivorus. Journal of Experimental Botany, 2003, 54, 1113-1114.	2.4	19
100	Respiration and temperature patterns in thermogenic flowers of Magnolia ovata under natural conditions in Brazil. Functional Plant Biology, 2010, 37, 870.	1.1	19
101	A novel pore system in the eggshells of the mallee fowl,Leipoa ocellata. The Journal of Experimental Zoology, 1982, 220, 131-134.	1.4	18
102	Respiratory gas exchange during thermogenesis inPhilodendron selloum Koch. Planta, 1984, 161, 229-232.	1.6	18
103	Stigma peroxidase activity in association with thermogenesis in Nelumbo nucifera. Aquatic Botany, 2000, 67, 155-159.	0.8	18
104	Diffusion pathway for oxygen into highly thermogenic florets of the arum lily Philodendron selloum. Journal of Experimental Botany, 2001, 52, 1465-1472.	2.4	17
105	Maximum metabolic rate, relative lift, wingbeat frequency, and stroke amplitude during tethered-flight in the adult locust Locusta migratoria. Journal of Experimental Biology, 2012, 215, 3317-23.	0.8	17
106	Symmorphosis and the insect respiratory system: a comparison between flight and hopping muscle. Journal of Experimental Biology, 2012, 215, 3324-33.	0.8	17
107	Biphasic Allometry of Cardiac Growth in the Developing KangarooMacropus fuliginosus. Physiological and Biochemical Zoology, 2015, 88, 216-225.	0.6	17
108	Scaling of the ankle extensor muscleâ€tendon units and the biomechanical implications for bipedal hopping locomotion in the postâ€pouch kangaroo Macropus fuliginosus. Journal of Anatomy, 2017, 231, 921-930.	0.9	17

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109	Interspecific scaling of blood flow rates and arterial sizes in mammals. Journal of Experimental Biology, 2019, 222, .	0.8	17
110	Cutaneous respiration by diving beetles from underground aquifers of Western Australia (Coleoptera: Dytiscidae). Journal of Experimental Biology, 2019, 222, .	0.8	17
111	Developmental allometry of pulmonary structure and function in the altricial Australian pelican Pelecanus conspicillatus. Journal of Experimental Biology, 2004, 207, 2663-2669.	0.8	16
112	Sauropods Kept Their Heads Down. Science, 2009, 323, 1671-1672.	6.0	16
113	The effects of temperature, activity and convection on the plastron PO2 of the aquatic bug Aphelocheirus aestivalis (Hemiptera; Aphelocheiridae). Journal of Insect Physiology, 2018, 106, 155-162.	0.9	16
114	Thermal clamping of temperature-regulating flowers reveals the precision and limits of the biochemical regulatory mechanism. Planta, 2010, 231, 1291-1300.	1.6	15
115	Thermologic investigations of three species of Amorphophallus. Journal of Thermal Analysis and Calorimetry, 2010, 102, 127-136.	2.0	15
116	Blood flow for bone remodelling correlates with locomotion in living and extinct birds. Journal of Experimental Biology, 2014, 217, 2956-62.	0.8	15
117	The biochemical basis for thermoregulation in heat-producing flowers. Scientific Reports, 2016, 6, 24830.	1.6	15
118	Influence of Temperature and Water Potential on Survival of Hatched, Terrestrial Larvae of the Frog Pseudophryne bibronii. Copeia, 1989, 1989, 207.	1.4	14
119	Model analogues in the study of cephalic circulation. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2000, 125, 517-524.	0.8	14
120	In situ measurement of calling metabolic rate in an Australian mole cricket, Gryllotalpa monanka. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2008, 150, 217-221.	0.8	14
121	Respiratory function of the plastron in the aquatic bug,Aphelocheirus aestivalis(Hemiptera,) Tj ETQq1 1 0.784314 rgBT /Overlo	0.8	14
122	The Brush Turkey. Scientific American, 1991, 265, 108-114.	1.0	13
123	Anatomy of the gas canal system of Nelumbo nucifera. Aquatic Botany, 2006, 85, 147-154.	0.8	13
124	Development of maximum metabolic rate and pulmonary diffusing capacity in the superprecocial Australian Brush Turkey Alectura lathami: An allometric and morphometric study. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2008, 150, 169-175.	0.8	13
125	Scaling of left ventricle cardiomyocyte ultrastructure across development in the kangaroo Macropus fuliginosus. Journal of Experimental Biology, 2015, 218, 1767-76.	0.8	13
126	Analysis of heat production in a thermogenic arum lily, Philodendron selloum, by three calorimetric methods. Thermochimica Acta, 1991, 193, 91-97.	1.2	12

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127	Energetics of mound-tending behaviour in the malleefowl, Leipoa ocellata (Megapodiidae). Animal Behaviour, 1993, 45, 333-341.	0.8	12
128	Blood flow rate and wall shear stress in seven major cephalic arteries of humans. Journal of Anatomy, 2020, 236, 522-530.	0.9	12
129	Pattern of respiration by intact inflorescences of the thermogenic arum lily Philodendron selloum. , 0, .		12
130	Polygyny and Reproductive Effort in the Malleefowl Leipoa ocellata. Emu, 1990, 90, 1-6.	0.2	11
131	Osmotic Balance in the Eggs of the Turtle Chelodina rugosa during Developmental Arrest under Water. Physiological Zoology, 1997, 70, 301-306.	1.5	11
132	Burrowing energetics of the Giant Burrowing Cockroach Macropanesthia rhinoceros: An allometric study. Journal of Insect Physiology, 2014, 70, 81-87.	0.9	11
133	Bone foramen dimensions and blood flow calculation: best practices. Journal of Anatomy, 2020, 236, 357-369.	0.9	11
134	Effect of Adding Water to Malleefowl Mounds During a Drought. Emu, 1984, 84, 116-118.	0.2	11
135	Body size and the air-breathing organ of the Atlantic tarpon Megalops atlanticus. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2008, 150, 282-287.	0.8	10
136	A novel functional element in the N-terminal region of Arum concinnatum alternative oxidase is indispensable for catalytic activity of the enzyme in HeLa cells. Biochimica Et Biophysica Acta - Bioenergetics, 2010, 1797, 20-28.	0.5	10
137	Heart Position in Snakes: Response to â€œPhylogeny, Ecology, and Heart Position in Snakesâ€• Physiological and Biochemical Zoology, 2011, 84, 99-101.	0.6	10
138	Energetic costs of digestion in Australian crocodiles. Australian Journal of Zoology, 2011, 59, 416.	0.6	10
139	Flight metabolic rate of Locusta migratoria in relation to oxygen partial pressure in atmospheres of varying diffusivity and density. Journal of Experimental Biology, 2017, 220, 4432-4439.	0.8	10
140	Novel vascular plexus in the head of a sea snake (Elapidae, Hydrophiinae) revealed by high-resolution computed tomography and histology. Royal Society Open Science, 2019, 6, 191099.	1.1	10
141	Can the Basal Metabolic Rate of Endotherms Be Explained by Biophysical Modeling? Response to â€œA New Model for the Body Sizeâ€“Metabolism Relationshipâ€• Physiological and Biochemical Zoology, 2011, 84, 107-110.	0.6	9
142	The oxygen supply to thermogenic flowers. Plant, Cell and Environment, 2015, 38, 827-837.	2.8	9
143	Femoral bone perfusion through the nutrient foramen during growth and locomotor development of western grey kangaroos Macropus fuliginosus. Journal of Experimental Biology, 2018, 221, .	0.8	9
144	Patterns of lung aeration in the perinatal period of domestic fowl and Brush Turkey. , 1984, , 319-332.		9

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145	Respiration and energetics of embryonic development in a large altricial bird, the Australian pelican (Pelecanus conspicillatus). Journal of Experimental Biology, 2002, 205, 2925-2933.	0.8	9
146	Energetics of Development of Embryos of the Australian Freshwater Crocodile, Crocodylus johnstoni: Relation to Duration of Incubation. Physiological Zoology, 1992, 65, 360-378.	1.5	8
147	Ameliorating the adverse cardiorespiratory effects of chemical immobilization by inducing general anaesthesia in sheep and goats: implications for physiological studies of large wild mammals. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2018, 188, 991-1003.	0.7	8
148	Cerebral blood flow rates in recent great apes are greater than in Australopithecus species that had equal or larger brains. Proceedings of the Royal Society B: Biological Sciences, 2019, 286, 20192208.	1.2	8
149	Morphology of the nutrient artery and its foramen in relation to femoral bone perfusion rates of laying and nonâ€laying hens. Journal of Anatomy, 2022, 240, 94-106.	0.9	8
150	Low concentrations of methaemoglobin in marine fishes of the Great Barrier Reef, Australia. Marine and Freshwater Research, 1997, 48, 303.	0.7	8
151	Non-invasive measurement of oxygen partial pressure, lateral diffusion and chorioallantoic blood flow under the avian eggshell. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2008, 150, 258-264.	0.8	7
152	Gas exchange and dive characteristics of the free-swimming backswimmer Anisops deanei. Journal of Experimental Biology, 2015, 218, 3478-3486.	0.8	7
153	The respiratory environment of the Namib Desert Golden Mole. Journal of Arid Environments, 1996, 32, 453-461.	1.2	6
154	Nesting climate and behaviour of Cape Barren geese (Cereopsis novaehollandiae Latham). Australian Journal of Zoology, 2001, 49, 155.	0.6	6
155	Oxygen binding properties of backswimmer (Notonectidae, Anisops) haemoglobin, determined in vivo. Journal of Insect Physiology, 2011, 57, 1698-1706.	0.9	6
156	The Importance of Perivitelline Fluid Convection to Oxygen Uptake of Pseudophryne bibronii Eggs. Physiological and Biochemical Zoology, 2011, 84, 299-305.	0.6	6
157	Metabolite profiling reveals tissue- and temperature-specific metabolomic responses in thermoregulatory male florets of Dracunculus vulgaris (Araceae). Metabolomics, 2013, 9, 919-930.	1.4	6
158	A structure-function analysis of the left ventricle. Journal of Applied Physiology, 2016, 121, 900-909.	1.2	6
159	Calculating brain perfusion of primates. Journal of Human Evolution, 2019, 128, 99-102.	1.3	6
160	Regional femoral bone blood flow rates in laying and non-laying chickens estimated with fluorescent microspheres. Journal of Experimental Biology, 2021, 224, .	0.8	6
161	Functional venous admixture in the lungs of the turtle, Chrysemys scripta. Respiration Physiology, 1983, 53, 99-107.	2.8	5
162	Behaviour and Time-Activity Budgets of Malleefowl Leipoa ocellata in South Australia. Emu, 1998, 98, 288-296.	0.2	5

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163	Diaphragmatic nets prevent water invasion of gas canals in Nelumbo nucifera. Aquatic Botany, 2000, 67, 53-59.	0.8	5
164	Ontogenetic comparisons of standard metabolism in three species of crocodilians. PLoS ONE, 2017, 12, e0171082.	1.1	5
165	Calorimetric investigations of the pollination biology of the thermogenic inflorescences of the dragon lily (Dracunculus vulgaris) and its pollinator (Protaetia cretica) on Crete. Thermochimica Acta, 2013, 551, 84-91.	1.2	4
166	Why vascular siphons with sub-atmospheric pressures are physiologically impossible in sauropod dinosaurs. Journal of Experimental Biology, 2016, 219, 2078-2079.	0.8	4
167	Respiration of thermogenic inflorescences of skunk cabbage Symplocarpus renifolius in heliox. Plant, Cell and Environment, 2018, 41, 367-373.	2.8	4
168	Ontogenetic scaling of the gastrointestinal tract of a marsupial foregut fermenter, the western grey kangaroo Macropus fuliginosus melanops. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2021, 191, 371-383.	0.7	4
169	Calorimetric investigations on mound-building birds. Thermochimica Acta, 1995, 250, 319-328.	1.2	3
170	Scaling of cardiac morphology is interrupted by birth in the developing sheep Ovis aries. Journal of Anatomy, 2019, 235, 96-105.	0.9	3
171	Scaling of morphology and ultrastructure of hearts among wild African antelope. Journal of Experimental Biology, 2018, 221, .	0.8	2
172	Exogenous induction of thermogenesis in Arum concinnatum by salicylic acid. Functional Plant Biology, 2018, 45, 1195.	1.1	2
173	The roles of diffusion and convection in ventilation of animal burrows. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2021, 191, 1047-1058.	0.7	2
174	Relationship between capillaries, mitochondria and maximum power of the heart: a meta-study from shrew to elephant. Proceedings of the Royal Society B: Biological Sciences, 2022, 289, 20212461.	1.2	2
175	Analysis of cutaneous and internal gill gas exchange morphology in early larval amphibians, Pseudophryne bibronii and Crinia georgiana. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2012, 182, 813-820.	0.7	1
176	Extreme hypoxia and highÂlactate concentrations in early chicken embryos show that cutaneous oxygen uptake is limited by diffusion and metabolism is partially anaerobic. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2021, 191, 1007-1016.	0.7	1
177	Gas exchange and dive behaviour in the diving beetle Platynectes decempunctatus (Coleoptera:) Tj ETQq1 1 0.784314 rgBT /Overlock	0.9	1
178	Russell V. Baudinette Memorial Symposium. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2008, 150, 85-89.	0.8	0
179	Field trials of a new physiological data logger in active fishes. FASEB Journal, 2008, 22, 970.37.	0.2	0
180	The tradeâ€off between maturation and growth during accelerated vertebrate development. FASEB Journal, 2012, 26, 886.15.	0.2	0