

Glenn J Tattersall

List of Publications by Year in descending order

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Version: 2024-02-01

89
papers

3,335
citations

201385

27
h-index

182168

51
g-index

91
all docs

91
docs citations

91
times ranked

3294
citing authors

#	ARTICLE	IF	CITATIONS
1	Defects in Breathing and Thermoregulation in Mice with Near-Complete Absence of Central Serotonin Neurons. <i>Journal of Neuroscience</i> , 2008, 28, 2495-2505.	1.7	283
2	Coping with Thermal Challenges: Physiological Adaptations to Environmental Temperatures. , 2012, 2, 2151-2202.		247
3	Infrared thermography: A non-invasive window into thermal physiology. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2016, 202, 78-98.	0.8	238
4	Heat Exchange from the Toucan Bill Reveals a Controllable Vascular Thermal Radiator. <i>Science</i> , 2009, 325, 468-470.	6.0	224
5	Geographical Variation in Bill Size across Bird Species Provides Evidence for Allen's Rule. <i>American Naturalist</i> , 2010, 176, 188-197.	1.0	173
6	The evolution of the avian bill as a thermoregulatory organ. <i>Biological Reviews</i> , 2017, 92, 1630-1656.	4.7	129
7	Physiological Ecology of Aquatic Overwintering in Rapid Frogs. <i>Biological Reviews</i> , 2008, 83, 119-140.	4.7	119
8	Heat Loss May Explain Bill Size Differences between Birds Occupying Different Habitats. <i>PLoS ONE</i> , 2012, 7, e40933.	1.1	95
9	Seasonal reproductive endothermy in tegu lizards. <i>Science Advances</i> , 2016, 2, e1500951.	4.7	90
10	Transient peripheral warming accompanies the hypoxic metabolic response in the golden-mantled ground squirrel. <i>Journal of Experimental Biology</i> , 2003, 206, 33-42.	0.8	76
11	Respiratory cooling and thermoregulatory coupling in reptiles. <i>Respiratory Physiology and Neurobiology</i> , 2006, 154, 302-318.	0.7	70
12	Body temperature depression and peripheral heat loss accompany the metabolic and ventilatory responses to hypoxia in low and high altitude birds. <i>Journal of Experimental Biology</i> , 2008, 211, 1326-1335.	0.8	70
13	Insights into animal temperature adaptations revealed through thermal imaging. <i>Imaging Science Journal</i> , 2010, 58, 261-268.	0.2	70
14	Shape-shifting: changing animal morphologies as a response to climatic warming. <i>Trends in Ecology and Evolution</i> , 2021, 36, 1036-1048.	4.2	70
15	The thermogenesis of digestion in rattlesnakes. <i>Journal of Experimental Biology</i> , 2004, 207, 579-585.	0.8	61
16	Hypoxia reduces the hypothalamic thermogenic threshold and thermosensitivity. <i>Journal of Physiology</i> , 2009, 587, 5259-5274.	1.3	54
17	Internal vascularity of the dermal plates of Stegosaurus (Ornithischia, Thyreophora). <i>Swiss Journal of Geosciences</i> , 2010, 103, 173-185.	0.5	54
18	<i>Drosophila</i> development, physiology, behavior, and lifespan are influenced by altered dietary composition. <i>Fly</i> , 2017, 11, 153-170.	0.9	54

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19	The Effect of Thermal Quality on the Thermoregulatory Behavior of the Bearded Dragon <i>Pogona vitticeps</i> : Influences of Methodological Assessment. <i>Physiological and Biochemical Zoology</i> , 2009, 82, 203-217.	0.6	51
20	Tribute to R. G. Boutilier: Skin colour and body temperature changes in basking <i>Bokermannohyla alvarengai</i> (Bokermann 1956). <i>Journal of Experimental Biology</i> , 2006, 209, 1185-1196.	0.8	49
21	Evolutionary trends in airway CO ₂ /H ⁺ chemoreception. <i>Respiratory Physiology and Neurobiology</i> , 2004, 144, 191-202.	0.7	42
22	Thermoregulatory windows in Darwin's finches. <i>Functional Ecology</i> , 2018, 32, 358-368.	1.7	38
23	Post-hatch heat warms adult beaks: irreversible physiological plasticity in Japanese quail. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2013, 280, 20131436.	1.2	36
24	Metabolic depression and enhanced O ₂ affinity of mitochondria in hypoxic hypometabolism. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2000, 279, R1205-R1214.	0.9	35
25	Seasonal torpor and normothermic energy metabolism in the Eastern chipmunk (<i>Tamias striatus</i>). <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2010, 180, 279-292.	0.7	33
26	Hypothermia-induced respiratory arrest and recovery in neonatal rats. <i>Respiratory Physiology and Neurobiology</i> , 2003, 137, 29-40.	0.7	32
27	Hypoxia progressively lowers thermal gaping thresholds in bearded dragons, <i>Pogona vitticeps</i> . <i>Journal of Experimental Biology</i> , 2005, 208, 3321-3330.	0.8	32
28	Spot size, distance and emissivity errors in field applications of infrared thermography. <i>Methods in Ecology and Evolution</i> , 2021, 12, 828-840.	2.2	29
29	Naked mole-rat brown fat thermogenesis is diminished during hypoxia through a rapid decrease in UCP1. <i>Nature Communications</i> , 2021, 12, 6801.	5.8	29
30	Decreased precision contributes to the hypoxic thermoregulatory response in lizards. <i>Journal of Experimental Biology</i> , 2009, 212, 137-144.	0.8	28
31	Daily and annual cycles in thermoregulatory behaviour and cardio-respiratory physiology of black and white tegu lizards. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2015, 185, 905-915.	0.7	27
32	The influence of hypoxia on the thermal sensitivity of skin colouration in the bearded dragon, <i>Pogona vitticeps</i> . <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2008, 178, 867-875.	0.7	26
33	Embryonic motility and hatching success of <i>Ambystoma maculatum</i> are influenced by a symbiotic alga. <i>Canadian Journal of Zoology</i> , 2008, 86, 1289-1298.	0.4	26
34	Threatened tadpoles of <i>Bokermannohyla alvarengai</i> (Anura: Hylidae) choose backgrounds that enhance crypsis potential. <i>Biological Journal of the Linnean Society</i> , 0, 101, 437-446.	0.7	26
35	Ventilatory and metabolic responses to hypoxia in the smallest simian primate, the pygmy marmoset. <i>Journal of Applied Physiology</i> , 2002, 92, 202-210.	1.2	25
36	Out of the frying pan into the air – emersion behaviour and evaporative heat loss in an amphibious mangrove fish (<i>Kryptolebias marmoratus</i>). <i>Biology Letters</i> , 2015, 11, 20150689.	1.0	24

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37	The relationship between body temperature, heart rate, breathing rate, and rate of oxygen consumption, in the tegu lizard (<i>Tupinambis merianae</i>) at various levels of activity. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2015, 185, 891-903.	0.7	24
38	Overwintering Habitats of a Northern Population of Painted Turtles (<i>Chrysemys picta</i>): Winter Temperature Selection and Dissolved Oxygen Concentrations. <i>Journal of Herpetology</i> , 2008, 42, 312-321.	0.2	22
39	Development of homeothermic endothermy is delayed in high-altitude native deer mice (<i>Peromyscus maniculatus</i>). <i>Journal of Experimental Biology</i> , 2019, 222, 20190841.	1.2	22
40	Rapid upregulation of heart antioxidant enzymes during arousal from estivation in the Giant African snail (<i>Achatina fulica</i>). <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2010, 157, 229-236.	0.8	21
41	Thermal games in crayfish depend on establishment of social hierarchies. <i>Journal of Experimental Biology</i> , 2012, 215, 1892-1904.	0.8	21
42	Body temperature regulation during acclimation to cold and hypoxia in rats. <i>Journal of Thermal Biology</i> , 2014, 46, 56-64.	1.1	21
43	Acid Water Interferes with Salamander's Green Algae Symbiosis during Early Embryonic Development. <i>Physiological and Biochemical Zoology</i> , 2012, 85, 470-480.	0.6	20
44	Characterizing the physiological and behavioral roles of proctolin in <i>Drosophila melanogaster</i> . <i>Journal of Neurophysiology</i> , 2016, 115, 568-580.	0.9	20
45	The ventilatory response to environmental hypercarbia in the South American rattlesnake, <i>Crotalus durissus</i> . <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2004, 174, 281-291.	0.7	19
46	Thermoregulation and aggregation in neonatal bearded dragons (<i>Pogona vitticeps</i>). <i>Physiology and Behavior</i> , 2010, 100, 180-186.	1.0	19
47	Infrared thermography as a technique to measure physiological stress in birds: Body region and image angle matter. <i>Physiological Reports</i> , 2021, 9, e14865.	0.7	18
48	Behavioural oxy-regulation by cold-submerged frogs in heterogeneous oxygen environments. <i>Canadian Journal of Zoology</i> , 1999, 77, 843-850.	0.4	17
49	Cassowary casques act as thermal windows. <i>Scientific Reports</i> , 2019, 9, 1966.	1.6	17
50	Disruption of TRPV3 Impairs Heat-Evoked Vasodilation and Thermoregulation: A Critical Role of CGRP. <i>Journal of Investigative Dermatology</i> , 2018, 138, 688-696.	0.3	16
51	The effects of ambient pH on nitrogen excretion in early life stages of the American toad (<i>Bufo</i>). <i>Journal of Experimental Biology</i> , 2015, 228, 2015190841.	0.7	15
52	Seasonal changes in thermoregulatory responses to hypoxia in the Eastern chipmunk (<i>Tamias</i>). <i>Journal of Experimental Biology</i> , 2000, 213, 2000190841.	0.8	15
53	Climate limitations on the distribution and phenology of a large carpenter bee, <i>Xylocopa virginica</i> (Hymenoptera: Apidae). <i>Canadian Journal of Zoology</i> , 2011, 89, 785-795.	0.4	15
54	Evaporative respiratory cooling augments pit organ thermal detection in rattlesnakes. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2013, 199, 1093-1104.	0.7	15

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55	Potential sources of intra-population variation in painted turtle (<i>Chrysemys picta</i>) hatchling overwintering strategy. <i>Journal of Experimental Biology</i> , 2014, 217, 4174-83.	0.8	13
56	Novel energy-saving strategies to multiple stressors in birds: the ultradian regulation of body temperature. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2016, 283, 20161551.	1.2	13
57	Role of adenosine in the hypoxia-induced hypothermia of toads. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2000, 279, R196-R201.	0.9	12
58	Body Size and Shape of the Large Carpenter Bee, <i>Xylocopa virginica</i> (L.) (Hymenoptera: Apidae). <i>Journal of the Kansas Entomological Society</i> , 2009, 82, 30-42.	0.1	11
59	Thermoregulatory consequences of salt loading in the lizard, <i>Pogona vitticeps</i> . <i>Journal of Experimental Biology</i> , 2015, 218, 1166-74.	0.8	11
60	Social cues can push amphibious fish to their thermal limits. <i>Biology Letters</i> , 2018, 14, 20180492.	1.0	11
61	Skin Breathing in Amphibians. , 2007, , 85-91.		10
62	Temperature Preference During Forelimb Regeneration in the Red-spotted Newt <i>Notophthalmus viridescens</i> . <i>Journal of Experimental Zoology</i> , 2012, 317, 248-258.	1.2	10
63	Evaporative cooling and vasodilation mediate thermoregulation in naked mole-rats during normoxia but not hypoxia. <i>Journal of Thermal Biology</i> , 2019, 84, 228-235.	1.1	10
64	An oversimplification of physiological principles leads to flawed macroecological analyses. <i>Ecology and Evolution</i> , 2019, 9, 12020-12025.	0.8	10
65	Activity analysis of thermal imaging videos using a difference imaging approach. <i>Journal of Thermal Biology</i> , 2020, 91, 102611.	1.1	10
66	Constant set points for pH and PCO ₂ in cold-submerged skin-breathing frogs. <i>Respiration Physiology</i> , 1999, 118, 49-59.	2.8	9
67	Responses of <i>Drosophila melanogaster</i> to atypical oxygen atmospheres. <i>Journal of Insect Physiology</i> , 2011, 57, 444-451.	0.9	9
68	Reptile thermogenesis and the origins of endothermy. <i>Zoology</i> , 2016, 119, 403-405.	0.6	9
69	Regulation of ventilation in the caiman (<i>Caiman latirostris</i>): effects of inspired CO ₂ on pulmonary and upper airway chemoreceptors. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2006, 176, 125-138.	0.7	8
70	Tortoises develop and overcome position biases in a reversal learning task. <i>Animal Cognition</i> , 2019, 22, 265-275.	0.9	8
71	A Long-Term Study on Massasaugas (<i>Sistrurus catenatus</i>) Inhabiting a Partially Mined Peatland: A Standardized Method to Characterize Snake Overwintering Habitat. <i>Journal of Herpetology</i> , 2020, 54, 235.	0.2	8
72	Trematode Parasite Infection Affects Temperature Selection in Aquatic Host Snails. <i>Physiological and Biochemical Zoology</i> , 2019, 92, 71-79.	0.6	7

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73	Hydrogen sulfide exposure reduces thermal set point in zebrafish. <i>Royal Society Open Science</i> , 2020, 7, 200416.	1.1	6
74	Fluctuations in oxygen influence facultative endothermy in bumblebees. <i>Journal of Experimental Biology</i> , 2014, 217, 3834-3842.	0.8	5
75	Thermogenesis in ectothermic vertebrates. <i>Temperature</i> , 2015, 2, 454-454.	1.7	5
76	Thermoregulatory behavior and orientation preference in bearded dragons. <i>Journal of Thermal Biology</i> , 2017, 69, 171-177.	1.1	5
77	Identification of a lipid-rich depot in the orbital cavity of the 13-lined ground squirrel. <i>Journal of Experimental Biology</i> , 2019, 222, .	0.8	5
78	Hot and covered: how dragons face the heat and thermoregulate. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2021, 191, 545-552.	0.7	5
79	Bearded dragons (<i>Pogona vitticeps</i>) with reduced scalation lose water faster but do not have substantially different thermal preferences. <i>Journal of Experimental Biology</i> , 2021, 224, .	0.8	4
80	Editorial: Advances in thermal imaging. <i>Journal of Thermal Biology</i> , 2021, 102, 103109.	1.1	4
81	Vocalization associated respiration patterns: thermography-based monitoring and detection of preparation for calling. <i>Journal of Experimental Biology</i> , 2022, , .	0.8	4
82	Pulmonary and cutaneous O ₂ gas exchange: a student laboratory exercise in the frog. <i>American Journal of Physiology - Advances in Physiology Education</i> , 2013, 37, 97-105.	0.8	3
83	Doping for sex: Bad for mitochondrial performances? Case of testosterone supplemented <i>Hyla arborea</i> during the courtship period. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2017, 209, 74-83.	0.8	2
84	Effect of nest microclimate temperatures on metabolic rates of small carpenter bees, <i>Ceratina calcarata</i> (Hymenoptera: Apidae). <i>Canadian Entomologist</i> , 2020, 152, 772-782.	0.4	2
85	Thermal Imaging and Physiological Analysis of Cold-Climature Caribou-Skin Clothing. <i>Arctic</i> , 2020, 73, 40-52.	0.2	2
86	Changes in body surface temperature play an under-appreciated role in the avian immune response. <i>Physiological and Biochemical Zoology</i> , 2022, 95, 152-167.	0.6	2
87	32.4. Thermoregulatory control of hypoxic mammals. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2007, 148, S139.	0.8	0
88	<i>Xenopus</i> and the art of oxygen maintenance. <i>Journal of Experimental Biology</i> , 2017, 220, 4084-4087.	0.8	0
89	Response to Allometry to evaluate Allen's rule in climate warming by Santoro and Calzada. <i>Trends in Ecology and Evolution</i> , 2022, , .	4.2	0