William A Buttemer

List of Publications by Year
in descending order

99 papers	4,724 citations	117453 34 h-index	102304 66 g-index
105 all docs	105 docs citations	105 times ranked	4478 citing authors

#	Article	IF	Citations
1	Life and Death: Metabolic Rate, Membrane Composition, and Life Span of Animals. Physiological Reviews, 2007, 87, 1175-1213.	13.1	732
2	Interactions of Corticosterone with Feeding, Activity and Metabolism in Passerine Birds. Ornis Scandinavica, 1992, 23, 355.	1.0	425
3	Dietary n-3 and n-6 fatty acids alter avian metabolism: metabolism and abdominal fat deposition. British Journal of Nutrition, 2002, 88, 11-18.	1.2	220
4	Seasonal and Acute Changes in Adrenocortical Responsiveness in an Arctic-Breeding Bird. Hormones and Behavior, 1995, 29, 442-457.	1.0	216
5	Gender and Seasonal Differences in the Adrenocortical Response to ACTH Challenge in an Arctic Passerine, Zonotrichia leucophrys gambelii. General and Comparative Endocrinology, 1994, 94, 33-43.	0.8	155
6	An Evaluation of Time-Budget Estimates of Daily Energy Expenditure in Birds. Auk, 1984, 101, 459-472.	0.7	130
7	From bivalves to birds: oxidative stress and longevity. Functional Ecology, 2010, 24, 971-983.	1.7	124
8	Frequency-dependent physiological trade-offs between competing colour morphs. Biology Letters, 2007, 3, 494-497.	1.0	108
9	Ecophysiology of avian migration in the face of current global hazards. Philosophical Transactions of the Royal Society B: Biological Sciences, 2012, 367, 1719-1732.	1.8	106
10	Seasonal and Geographic Variation of Cold Resistance in House Finches Carpodacus mexicanus. Physiological Zoology, 1983, 56, 353-369.	1.5	103
11	Avian Eggs: Thermoregulatory Value of Very High Near-Infrared Reflectance. Science, 1978, 200, 321-323.	6.0	87
12	Corticosterone Treatment Has No Effect on Reproductive Hormones or Aggressive Behavior in Free-living Male Tree Sparrows, Spizella arborea. Hormones and Behavior, 2000, 37, 31-39.	1.0	85
13	Time-Budget Estimates of Avian Energy Expenditure: Physiological and Meteorological Considerations. Physiological Zoology, 1986, 59, 131-149.	1.5	78
14	Roles of the Tent in Behavioral Thermoregulation of Eastern Tent Caterpillars. Ecology, 1988, 69, 2004-2011.	1.5	76
15	Heated Taxidermic Mounts: A Means of Measuring the Standard Operative Temperature Affecting Small Animals. Ecology, 1981, 62, 311-318.	1.5	75
16	The effect of corticosterone on standard metabolic rates of small passerine birds. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 1991, 161, 427-31.	0.7	75
17	Steroid Hormone Interrelationships with Territorial Aggression in an Arctic-Breeding Songbird, Gambel's White-Crowned Sparrow, Zonotrichia leucophrys gambelii. Hormones and Behavior, 2002, 42, 212-221.	1.0	74
18	Temporal Patterns of Territorial Behavior and Circulating Testosterone in the Lapland Longspur and Other Arctic Passerines. American Zoologist, 1995, 35, 274-284.	0.7	62

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19	Energy relations of winter roost-site utilization by American goldfinches (Carduelis tristis). Oecologia, 1985, 68, 126-132.	0.9	58
20	Early-Developmental Stress, Repeatability, and Canalization in a Suite of Physiological and Behavioral Traits in Female Zebra Finches. Integrative and Comparative Biology, 2014, 54, 539-554.	0.9	56
21	The Influence of Testosterone on Territorial Defence and Parental Behavior in Male Free-Living Rufous Whistlers, Pachycephala rufiventris. Hormones and Behavior, 2001, 39, 185-194.	1.0	54
22	Effect of Temperature on Evaporative Water Loss of the Australian Tree Frogs Litoria caerulea and Litoria chloris. Physiological Zoology, 1990, 63, 1043-1057.	1.5	50
23	The Long Life of Birds: The Rat-Pigeon Comparison Revisited. PLoS ONE, 2011, 6, e24138.	1.1	49
24	Constrained mate choice in social monogamy and the stress of having an unattractive partner. Proceedings of the Royal Society B: Biological Sciences, 2011, 278, 2798-2805.	1.2	48
25	Fipronil toxicity in northern bobwhite quail Colinus virginianus: Reduced feeding behaviour and sulfone metabolite formation. Chemosphere, 2011, 83, 524-530.	4.2	43
26	Fowl play and the price of petrel: long-living Procellariiformes have peroxidation-resistant membrane composition compared with short-living Galliformes. Biology Letters, 2008, 4, 351-354.	1.0	42
27	Does the oxidative stress theory of aging explain longevity differences in birds? I. Mitochondrial ROS production. Experimental Gerontology, 2012, 47, 203-210.	1.2	42
28	Testosterone does not affect basal metabolic rate or blood parasite load in captive male White-plumed Honeyeaters Lichenostomus penicillatus. Journal of Avian Biology, 2000, 31, 479-488.	0.6	41
29	Prolactin, body condition and the cost of good parenting: an interyear study in a long-lived seabird, Gould's Petrel (Pterodroma leucoptera). Functional Ecology, 2006, 20, 806-811.	1.7	41
30	EFFECTS OF SUBLETHAL FENITROTHION INGESTION ON CHOLINESTERASE INHIBITION, STANDARD METABOLISM, THERMAL PREFERENCE, AND PREY-CAPTURE ABILITY IN THE AUSTRALIAN CENTRAL BEARDED DRAGON (POGONA VITTICEPS, AGAMIDAE). Environmental Toxicology and Chemistry, 2004, 23, 109.	2.2	40
31	Covariation in Life-History Traits: Differential Effects of Diet on Condition, Hormones, Behavior, and Reproduction in Genetic Finch Morphs. American Naturalist, 2012, 179, 375-390.	1.0	40
32	Does the oxidative stress theory of aging explain longevity differences in birds? II. Antioxidant systems and oxidative damage. Experimental Gerontology, 2012, 47, 211-222.	1.2	37
33	Inexplicable Inefficiency of Avian Molt? Insights from an Opportunistically Breeding Arid-Zone Species, Lichenostomus penicillatus. PLoS ONE, 2011, 6, e16230.	1.1	36
34	CHOLINESTERASE RESPONSE IN NATIVE BIRDS EXPOSED TO FENITROTHION DURING LOCUST CONTROL OPERATIONS IN EASTERN AUSTRALIA. Environmental Toxicology and Chemistry, 2006, 25, 2964.	2.2	34
35	Early origin of sweet perception in the songbird radiation. Science, 2021, 373, 226-231.	6.0	34
36	A Reexamination of the Metabolic Response of House Finches to Temperature. Condor, 1985, 87, 424-427.	0.7	33

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37	Adverse effects of fipronil on avian reproduction and development: maternal transfer of fipronil to eggs in zebra finch Taeniopygia guttata and in ovo exposure in chickens Gallus domesticus. Ecotoxicology, 2011, 20, 653-660.	1.1	33
38	Energy Savings Attending Winter-Nest Use by Verdins (Auriparus flaviceps). Auk, 1987, 104, 531-535.	0.7	32
39	A comparison of photolyase activity in three Australian tree frogs. Oecologia, 1998, 115, 366-369.	0.9	30
40	Does baiting influence the relative composition of the diet of foxes?. Wildlife Research, 2006, 33, 481.	0.7	30
41	Low intensity blood parasite infections do not reduce the aerobic performance of migratory birds. Proceedings of the Royal Society B: Biological Sciences, 2018, 285, 20172307.	1.2	30
42	Testosterone effects on avian basal metabolic rate and aerobic performance: Facts and artefacts. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2008, 150, 204-210.	0.8	29
43	Dietary <I>n</I>-3 and <I>n</I>-6 fatty acids alter avian metabolism: metabolism and abdominal fat deposition. British Journal of Nutrition, 2002, 88, 11-18.	1.2	29
44	Temporal pattern of foraging and microhabitat use by Galï¿½pagos marine iguanas, Amblyrhynchus cristatus. Oecologia, 1993, 96, 56-64.	0.9	28
45	Maternal stress to partner quality is linked to adaptive offspring sex ratio adjustment. Behavioral Ecology, 2011, 22, 717-722.	1.0	27
46	Diacetone alcohol, a dispersant solvent, contributes to acute toxicity of a fipronil-based insecticide in a passerine bird. Ecotoxicology and Environmental Safety, 2008, 71, 597-600.	2.9	26
47	Geographical variation in the standard physiology of brushtail possums (Trichosurus): implications for conservation translocations. , 2018, 6, coy042.		23
48	Developmental stress can uncouple relationships between physiology and behaviour. Biology Letters, 2014, 10, 20140834.	1.0	22
49	An experimental examination of interindividual variation in feather corticosterone content in the house sparrow, Passer domesticus in southeast Australia. General and Comparative Endocrinology, 2017, 244, 93-100.	0.8	22
50	Personality and innate immune defenses in a wild bird: Evidence for the pace-of-life hypothesis. Hormones and Behavior, 2017, 88, 31-40.	1.0	22
51	Thermoenergetics of pre-moulting and moulting kookaburras (Dacelo novaeguineae): they're laughing. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2003, 173, 223-230.	0.7	21
52	Influence of temperature on evaporative water loss and cutaneous resistance to water vapour diffusion in the orange-thighed frog (Litoria xanthomera). Australian Journal of Zoology, 2003, 51, 111.	0.6	21
53	Fenitrothion, an organophosphate, affects running endurance but not aerobic capacity in fat-tailed dunnarts (Sminthopsis crassicaudata). Chemosphere, 2008, 72, 1315-1320.	4.2	21
54	Effect of Temperature on the Rate of Ageing: An Experimental Study of the Blowfly Calliphora stygia. PLoS ONE, 2013, 8, e73781.	1.1	21

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55	Indices for Predicting Total Body Fat in Red Foxes from Australia. Journal of Wildlife Management, 1998, 62, 1307.	0.7	20
56	A â€˜slow pace of lifeâ€™ in Australian old-endemic passerine birds is not accompanied by low basal metabolic rates. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2016, 186, 503-512.	0.7	20
57	Parent-embryo acoustic communication: a specialised heat vocalisation allowing embryonic eavesdropping. Scientific Reports, 2018, 8, 17721.	1.6	20
58	Fat deposition and seasonal variation in body composition of red foxes (Vulpes vulpes) in Australia. Canadian Journal of Zoology, 1999, 77, 406-412.	0.4	19
59	Changes in latitude, changes in attitude: a perspective on ecophysiological studies of Australian birds. Emu, 2002, 102, 19-27.	0.2	19
60	Are day-active small mammals rare and small birds abundant in Australian desert environments because small mammals are inferior thermoregulators?. Australian Mammalogy, 2004, 26, 117.	0.7	19
61	Chemical composition and tissue energy density of the cuttlefish (Sepia apama) and its assimilation efficiency by Diomedea albatrosses. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2010, 180, 1247-1255.	0.7	18
62	Energetics of communal roosting in chestnut-crowned babblers: implications for group dynamics and breeding phenology. Journal of Experimental Biology, 2016, 219, 3321-3328.	0.8	18
63	An evaluation of three field techniques for sexing Gould's Petrels (Pterodroma leucoptera) (Procellariidae). Emu, 2006, 106, 245-252.	0.2	17
64	Metabolic rate and membrane fatty acid composition in birds: a comparison between long-living parrots and short-living fowl. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2012, 182, 127-137.	0.7	17
65	Among- and within-individual correlations between basal and maximal metabolic rates in birds. Journal of Experimental Biology, 2014, 217, 3593-6.	0.8	17
66	Body temperature, water flux and estimated energy expenditure of incubating emus (Dromaius) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 30	0.7	16
67	Effects of diets high in whey, soy, red meat and milk protein on body weight maintenance in dietâ€induced obesity in mice. Nutrition and Dietetics, 2008, 65, S53.	0.9	16
68	THE EFFECT OF ACUTE FENITROTHION EXPOSURE ON A VARIETY OF PHYSIOLOGICAL INDICES, INCLUDING AVIAN AEROBIC METABOLISM DURING EXERCISE AND COLD EXPOSURE. Environmental Toxicology and Chemistry, 2009, 28, 388.	2.2	16
69	Plasma Cholinesterase characteristics in native Australian birds: significance for monitoring avian species for pesticide exposure. Emu, 2009, 109, 41-47.	0.2	16
70	Acute oral toxicity of the organophosphorus pesticide fenitrothion to fatâ€tailed and stripeâ€faced dunnarts and its relevance for pesticide risk assessments in Australia. Environmental Toxicology and Chemistry, 2011, 30, 1163-1169.	2.2	16
71	Passive Flow Through an Unstalked Intertidal Ascidian: Orientation and Morphology Enhance Suspension Feeding in Pyura stolonifera. Biological Bulletin, 2004, 207, 217-224.	0.7	15
72	Investigator disturbance does not influence chick growth or survivorship in the threatened Gould's Petrel Pterodroma leucoptera. Ibis, 2006, 148, 368-372.	1.0	15

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73	Differential rates of offspring provisioning in Gould's petrels: are better feeders better breeders. Australian Journal of Zoology, 2007, 55, 155.	0.6	14
74	Thermal and Water Relations of Emu Eggs during Natural Incubation. Physiological Zoology, 1988, 61, 483-494.	1.5	13
75	The influence of thermoregulatory demand on contact crÃ¨ching behaviour in AdÃ©lie Penguin chicks. Journal of Thermal Biology, 2001, 26, 555-562.	1.1	11
76	Size matters: extraordinary rodent abundance on an Australian tropical flood plain. Austral Ecology, 2006, 31, 361-365.	0.7	11
77	Tough decisions: Reproductive timing and output vary with individuals' physiology, behavior and past success in a social opportunistic breeder. Hormones and Behavior, 2015, 76, 23-33.	1.0	11
78	Why fly the extra mile? Using stress biomarkers to assess wintering habitat quality in migratory shorebirds. Oecologia, 2016, 182, 385-395.	0.9	11
79	Differential Overnight Survival by Bumpus' House Sparrows: An Alternate Interpretation. Condor, 1992, 94, 944-954.	0.7	10
80	Field metabolic rate and body water turnover of the red fox Vulpes vulpes in Australia. Mammal Review, 2003, 33, 295-301.	2.2	9
81	Muscle mitochondrial volume and aerobic capacity in a small marsupial (Sminthopsis) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5 0 levels in mammals generally.. Journal of Experimental Biology, 2013, 216, 1330-7.	0.8	9
82	Lack of seasonal and moult-related stress modulation in an opportunistically breeding bird: The white-plumed honeyeater (Lichenostomus penicillatus). Hormones and Behavior, 2015, 76, 34-40.	1.0	9
83	Moult-related reduction of aerobic scope in passerine birds. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2019, 189, 463-470.	0.7	9
84	The energy cost of feather replacement is not intrinsically inefficient. Canadian Journal of Zoology, 2020, 98, 142-148.	0.4	9
85	Inadvertent translocation of amphibians in the shipment of agricultural produce into New South Wales: its extent and conservation implications. Pacific Conservation Biology, 2000, 6, 40.	0.5	9
86	Diet fatty acid profile, membrane composition and lifespan: An experimental study using the blowfly (Calliphora stygia). Mechanisms of Ageing and Development, 2014, 138, 15-25.	2.2	8
87	Repeatability of behavior and physiology: No impact of reproductive investment. General and Comparative Endocrinology, 2020, 290, 113403.	0.8	7
88	Thermal and Behavioural Correlates of Nest Site Location in Black Noddies. Emu, 1990, 90, 114-118.	0.2	6
89	Fenitrothion, an organophosphorous insecticide, impairs locomotory function and alters body temperatures in Sminthopsis macroura (Gould 1845) without reducing metabolic rates during running endurance and thermogenic performance tests. Environmental Toxicology and Chemistry, 2016, 35, 152-162.	2.2	6
90	The effect of food temperature on postprandial metabolism in albatrosses. Journal of Experimental Biology, 2008, 211, 1093-1101.	0.8	5

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91	Gonadal and hormonal phenology in free-living male rufous whistlers, Pachycephala rufiventris (Passeriformes : Pachycephalidae). Australian Journal of Zoology, 2001, 49, 651.	0.6	5
92	Experimental corticosterone manipulation increases mature feather corticosterone content: implications for inferring avian stress history from feather analyses. Canadian Journal of Zoology, 2021, 99, 948-952.	0.4	4
93	Citrate synthase activity does not account for age-related differences in maximum aerobic performance in House Sparrows (Passer domesticus). Australian Zoologist, 2010, 35, 378-382.	0.6	4
94	Fat deposition and seasonal variation in body composition of red foxes (Vulpes vulpes) in Australia. Canadian Journal of Zoology, 1999, 77, 406-412.	0.4	3
95	Emu Winter Incubation: Thermal, Water, and Energy Relations. , 1989, , 315-324.		2
96	Mass-related differences in metabolic rate and fasting endurance explain divergence in seasonal activity of Mediterranean lizards. Amphibia - Reptilia, 2022, 43, 225-234.	0.1	2
97	Short- and long-distance avian migrants differ in exercise endurance but not aerobic capacity. BMC Zoology, 2022, 7, .	0.3	2
98	Metabolic rates of aggressive and submissive phenotypes are colour blind in the polymorphic Gouldian finch. Journal of Experimental Biology, 2021, 224, .	0.8	1
99	No evidence of metabolic costs following adaptive immune activation or reactivation in house sparrows. Biology Letters, 2022, 18, .	1.0	0