

Robbie S Wilson

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2450180/publications.pdf>

Version: 2024-02-01

121
papers

4,528
citations

101543

36
h-index

123424

61
g-index

123
all docs

123
docs citations

123
times ranked

4402
citing authors

#	ARTICLE	IF	CITATIONS
1	Tradeoffs and the evolution of thermal reaction norms. <i>Trends in Ecology and Evolution</i> , 2003, 18, 234-240.	8.7	414
2	Performance constraints in decathletes. <i>Nature</i> , 2002, 415, 755-756.	27.8	289
3	Testing the beneficial acclimation hypothesis. <i>Trends in Ecology and Evolution</i> , 2002, 17, 66-70.	8.7	288
4	Coadaptation: A Unifying Principle in Evolutionary Thermal Biology. <i>Physiological and Biochemical Zoology</i> , 2006, 79, 282-294.	1.5	248
5	Predicting the physiological performance of ectotherms in fluctuating thermal environments. <i>Journal of Experimental Biology</i> , 2012, 215, 694-701.	1.7	208
6	Urban Physiology: City Ants Possess High Heat Tolerance. <i>PLoS ONE</i> , 2007, 2, e258.	2.5	133
7	Morphological and physiological specialization for digging in amphisbaenians, an ancient lineage of fossorial vertebrates. <i>Journal of Experimental Biology</i> , 2004, 207, 2433-2441.	1.7	91
8	Dishonest Signals of Strength in Male Slender Crayfish (<i>Cherax dispar</i>) during Agonistic Encounters. <i>American Naturalist</i> , 2007, 170, 284-291.	2.1	85
9	New urban developments that retain more remnant trees have greater bird diversity. <i>Landscape and Urban Planning</i> , 2015, 136, 122-129.	7.5	80
10	Trade-offs between speed and endurance in the frog <i>Xenopus laevis</i> . <i>Journal of Experimental Biology</i> , 2002, 205, 1145-1152.	1.7	69
11	Running faster causes disaster: trade-offs between speed, manoeuvrability and motor control when running around corners in northern quolls (<i>Dasyurus hallucatus</i>). <i>Journal of Experimental Biology</i> , 2015, 218, 433-439.	1.7	67
12	Geographic variation in thermal sensitivity of jumping performance in the frog <i>Limnodynastes peronii</i> . <i>Journal of Experimental Biology</i> , 2001, 204, 4227-4236.	1.7	67
13	Temperature influences the coercive mating and swimming performance of male eastern mosquitofish. <i>Animal Behaviour</i> , 2005, 70, 1387-1394.	1.9	57
14	Short- and long-term consequences of thermal variation in the larval environment of anurans. <i>Journal of Animal Ecology</i> , 2006, 75, 686-692.	2.8	57
15	Cooler temperatures increase sensitivity to ultraviolet B radiation in embryos and larvae of the frog <i>Limnodynastes peronii</i> . <i>Global Change Biology</i> , 2007, 13, 1114-1121.	9.5	56
16	Weapon size is a reliable indicator of strength and social dominance in female slender crayfish (<i>Cherax dispar</i>). <i>Functional Ecology</i> , 2008, 22, 311-316.	3.6	56
17	Capacity for thermal acclimation differs between populations and phylogenetic lineages within a species. <i>Functional Ecology</i> , 2012, 26, 1418-1428.	3.6	56
18	Of Uberfleas and Krakens: Detecting Trade-offs Using Mixed Models. <i>Integrative and Comparative Biology</i> , 2017, 57, 362-371.	2.0	56

#	ARTICLE	IF	CITATIONS
19	Predicting the Movement Speeds of Animals in Natural Environments. <i>Integrative and Comparative Biology</i> , 2015, 55, 1125-1141.	2.0	55
20	Multiscale Evaluation of Thermal Dependence in the Glucocorticoid Response of Vertebrates. <i>American Naturalist</i> , 2016, 188, 342-356.	2.1	54
21	Reduced size and starvation resistance in adult mosquitoes, <i>Aedes notoscriptus</i> , exposed to predation cues as larvae. <i>Journal of Animal Ecology</i> , 2012, 81, 108-115.	2.8	51
22	Cockroaches breathe discontinuously to reduce respiratory water loss. <i>Journal of Experimental Biology</i> , 2009, 212, 2773-2780.	1.7	49
23	Sustained swimming performance and muscle structure are altered by thermal acclimation in male mosquitofish. <i>Journal of Thermal Biology</i> , 2004, 29, 251-257.	2.5	48
24	Effect of Tail Loss on Reproductive Output and Its Ecological Significance in the Skink <i>Eulamprus quoyii</i> . <i>Journal of Herpetology</i> , 1998, 32, 128.	0.5	47
25	Absence of thermal acclimatory capacity of locomotor performance in adults of the frog <i>Limnodynastes peronii</i> . <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2000, 127, 21-28.	1.8	47
26	Why do colder mothers produce larger eggs? An optimality approach. <i>Journal of Experimental Biology</i> , 2010, 213, 3796-3801.	1.7	47
27	Individual recognition in crayfish (<i>Cherax dispar</i>): the roles of strength and experience in deciding aggressive encounters. <i>Biology Letters</i> , 2007, 3, 471-474.	2.3	44
28	Striped marsh frog (<i>Limnodynastes peronii</i>) tadpoles do not acclimate metabolic performance to thermal variability. <i>Journal of Experimental Biology</i> , 2011, 214, 1965-1970.	1.7	44
29	Constraints on muscular performance: trade-offs between power output and fatigue resistance. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2004, 271, S222-5.	2.6	42
30	Effects of caffeine on mouse skeletal muscle power output during recovery from fatigue. <i>Journal of Applied Physiology</i> , 2004, 96, 545-552.	2.5	42
31	Stenotherms at sub-zero temperatures: thermal dependence of swimming performance in Antarctic fish. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2001, 171, 263-269.	1.5	41
32	Explosive Jumping: Extreme Morphological and Physiological Specializations of Australian Rocket Frogs (<i>Litoria nasuta</i>). <i>Physiological and Biochemical Zoology</i> , 2008, 81, 176-185.	1.5	41
33	The energetic cost of exposure to UV radiation for tadpoles is greater when they live with predators. <i>Functional Ecology</i> , 2012, 26, 94-103.	3.6	41
34	The Role of Overconfidence in Romantic Desirability and Competition. <i>Personality and Social Psychology Bulletin</i> , 2015, 41, 1036-1052.	3.0	41
35	Locomotor performance of closely related <i>Tropidurus</i> species: relationships with physiological parameters and ecological divergence. <i>Journal of Experimental Biology</i> , 2004, 207, 1183-1192.	1.7	40
36	Costs and benefits of increased weapon size differ between sexes of the slender crayfish, <i>Cherax dispar</i> . <i>Journal of Experimental Biology</i> , 2009, 212, 853-858.	1.7	38

#	ARTICLE	IF	CITATIONS
37	Trade-offs between speed and endurance in the frog <i>Xenopus laevis</i> : a multi-level approach. <i>Journal of Experimental Biology</i> , 2002, 205, 1145-52.	1.7	37
38	Sex-specific trade-offs and compensatory mechanisms: bite force and sprint speed pose conflicting demands on the design of geckos (<i>Hemidactylus frenatus</i>). <i>Journal of Experimental Biology</i> , 2013, 216, 3781-9.	1.7	36
39	Risk of predation enhances the lethal effects of UV-B in amphibians. <i>Global Change Biology</i> , 2010, 16, 538-545.	9.5	34
40	Multivariate analyses of individual variation in soccer skill as a tool for talent identification and development: utilising evolutionary theory in sports science. <i>Journal of Sports Sciences</i> , 2016, 34, 2074-2086.	2.0	34
41	Speed and maneuverability jointly determine escape success: exploring the functional bases of escape performance using simulated games. <i>Behavioral Ecology</i> , 2016, 27, 45-54.	2.2	34
42	Relationships between running demands in soccer match-play, anthropometric, and physical fitness characteristics: a systematic review. <i>International Journal of Performance Analysis in Sport</i> , 2020, 20, 534-555.	1.1	33
43	Competition moderates the benefits of thermal acclimation to reproductive performance in male eastern mosquitofish. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2007, 274, 1199-1204.	2.6	32
44	Performance trade-offs and ageing in the "world's greatest athletes". <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2017, 284, 20171048.	2.6	32
45	Does individual quality mask the detection of performance trade-offs? A test using analyses of human physical performance. <i>Journal of Experimental Biology</i> , 2014, 217, 545-551.	1.7	31
46	Immune-Challenged Fish Up-Regulate Their Metabolic Scope to Support Locomotion. <i>PLoS ONE</i> , 2016, 11, e0166028.	2.5	30
47	Effect of Ontogenetic Increases in Body Size on Burst Swimming Performance in Tadpoles of the Striped Marsh Frog, <i>Limnodynastes peronii</i> . <i>Physiological and Biochemical Zoology</i> , 2000, 73, 142-152.	1.5	29
48	Skill not athleticism predicts individual variation in match performance of soccer players. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2017, 284, 20170953.	2.6	29
49	Dehydration Hardly Slows Hopping Toads (<i>Rhinella granulosa</i>) from Xeric and Mesic Environments. <i>Physiological and Biochemical Zoology</i> , 2013, 86, 451-457.	1.5	28
50	Optimal running speeds when there is a trade-off between speed and the probability of mistakes. <i>Functional Ecology</i> , 2017, 31, 1941-1949.	3.6	27
51	Sex cells in changing environments: can organisms adjust the physiological function of gametes to different temperatures?. <i>Global Change Biology</i> , 2012, 18, 1797-1803.	9.5	26
52	Turning up the heat on subzero fish: thermal dependence of sustained swimming in an Antarctic notothenioid. <i>Journal of Thermal Biology</i> , 2002, 27, 381-386.	2.5	25
53	Predator-mediated phenotypic plasticity in tadpoles of the striped marsh frog, <i>Limnodynastes peronii</i> . <i>Austral Ecology</i> , 2005, 30, 558-563.	1.5	25
54	Is honesty the best policy? Testing signal reliability in fiddler crabs when receiver-dependent costs are high. <i>Functional Ecology</i> , 2012, 26, 804-811.	3.6	25

#	ARTICLE	IF	CITATIONS
55	Interindividual Differences in Leg Muscle Mass and Pyruvate Kinase Activity Correlate with Interindividual Differences in Jumping Performance of <i>Hyla multilineata</i> . <i>Physiological and Biochemical Zoology</i> , 2005, 78, 857-867.	1.5	24
56	Zebrafish take their cue from temperature but not photoperiod for the seasonal plasticity of thermal performance. <i>Journal of Experimental Biology</i> , 2010, 213, 3705-3709.	1.7	24
57	A small increase in UV-B increases the susceptibility of tadpoles to predation. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2011, 278, 2575-2583.	2.6	23
58	Interindividual variation of isolated muscle performance and fibre-type composition in the toad <i>Bufo viridus</i> . <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2004, 174, 453-9.	1.5	22
59	Consequences of thermal acclimation for the mating behaviour and swimming performance of female mosquito fish. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2007, 362, 2131-2139.	4.0	22
60	How Fast Should an Animal Run When Escaping? An Optimality Model Based on the Trade-Off Between Speed and Accuracy. <i>Integrative and Comparative Biology</i> , 2015, 55, icv091.	2.0	22
61	Using step width to compare locomotor biomechanics between extinct, non-avian theropod dinosaurs and modern obligate bipeds. <i>Journal of the Royal Society Interface</i> , 2017, 14, 20170276.	3.4	21
62	Social control of unreliable signals of strength in male but not female crayfish, <i>Cherax destructor</i> . <i>Journal of Experimental Biology</i> , 2011, 214, 3294-3299.	1.7	20
63	Fall field crickets did not acclimate to simulated seasonal changes in temperature. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2012, 182, 199-207.	1.5	20
64	THE CONTRIBUTION OF SPONTANEOUS MUTATIONS TO THERMAL SENSITIVITY CURVE VARIATION IN <i>DROSOPHILA SERRATA</i> . <i>Evolution; International Journal of Organic Evolution</i> , 2014, 68, 1824-1837.	2.3	19
65	Metabolic incentives for dishonest signals of strength in crustaceans. <i>Journal of Experimental Biology</i> , 2014, 217, 2848-50.	1.7	17
66	Daylight saving time can decrease the frequency of wildlife-vehicle collisions. <i>Biology Letters</i> , 2016, 12, 20160632.	2.3	17
67	Ecological context and the probability of mistakes underlie speed choice. <i>Functional Ecology</i> , 2018, 32, 990-1000.	3.6	17
68	Moving in complex environments: a biomechanical analysis of locomotion on inclined and narrow substrates. <i>Journal of Experimental Biology</i> , 2019, 222, .	1.7	17
69	Locomotion at $\hat{1.0}^{\circ}\text{C}$: burst swimming performance of five species of Antarctic fish. <i>Journal of Thermal Biology</i> , 2003, 28, 59-65.	2.5	16
70	Evening up the score: sexual selection favours both alternatives in the colour-polymorphic ornate rainbowfish. <i>Animal Behaviour</i> , 2010, 80, 845-851.	1.9	16
71	Koala habitat use and population density: using field data to test the assumptions of ecological models. <i>Australian Mammalogy</i> , 2013, 35, 160.	1.1	16
72	Habitat features and performance interact to determine the outcomes of terrestrial predator-prey pursuits. <i>Journal of Animal Ecology</i> , 2020, 89, 2958-2971.	2.8	16

#	ARTICLE	IF	CITATIONS
73	Physiological and behavioural responses to seasonal changes in environmental temperature in the Australian spiny crayfish <i>Euastacus sulcatus</i> . <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2010, 180, 653-660.	1.5	15
74	Females prefer athletes, males fear the disadvantaged: different signals used in female choice and male competition have varied consequences. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2010, 277, 1923-1928.	2.6	15
75	The behavioural ecology and population dynamics of a cryptic ground-dwelling mammal in an urban Australian landscape. <i>Austral Ecology</i> , 2011, 36, 722-732.	1.5	15
76	A comparative study of single leg ground reaction forces in running lizards. <i>Journal of Experimental Biology</i> , 2013, 217, 735-42.	1.7	15
77	TRAIT COMPENSATION AND SEX-SPECIFIC AGING OF PERFORMANCE IN MALE AND FEMALE PROFESSIONAL BASKETBALL PLAYERS. <i>Evolution; International Journal of Organic Evolution</i> , 2014, 68, 1523-1532.	2.3	15
78	Modeling the two-dimensional accuracy of soccer kicks. <i>Journal of Biomechanics</i> , 2018, 72, 159-166.	2.1	15
79	Behaviors of shooter and goalkeeper interact to determine the outcome of soccer penalties. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2018, 28, 2751-2759.	2.9	15
80	Dribbling speed along curved paths predicts attacking performance in match-realistic one vs. one soccer games. <i>Journal of Sports Sciences</i> , 2019, 37, 1072-1079.	2.0	15
81	Extravagant ornaments of male threadfin rainbowfish (<i>riatherina weneri</i>) are not costly for swimming. <i>Functional Ecology</i> , 2013, 27, 1034-1041.	3.6	14
82	Effect of thermal acclimation on female resistance to forced matings in the eastern mosquitofish. <i>Animal Behaviour</i> , 2006, 72, 585-593.	1.9	13
83	Skull shape of a widely distributed, endangered marsupial reveals little evidence of local adaptation between fragmented populations. <i>Ecology and Evolution</i> , 2020, 10, 9707-9720.	1.9	13
84	Improving sneaky-sex in a low oxygen environment: reproductive and physiological responses of male mosquito fish to chronic hypoxia. <i>Journal of Experimental Biology</i> , 2006, 209, 4878-4884.	1.7	12
85	Cryptic asymmetry: unreliable signals mask asymmetric performance of crayfish weapons. <i>Biology Letters</i> , 2012, 8, 551-553.	2.3	12
86	Building a dishonest signal: the functional basis of unreliable signals of strength in males of the two-toned fiddler crab, <i>Uca vomeris</i> . <i>Journal of Experimental Biology</i> , 2015, 218, 3077-82.	1.7	12
87	Manganese accumulates in the brain of northern quolls (<i>Dasyurus hallucatus</i>) living near an active mine. <i>Environmental Pollution</i> , 2018, 233, 377-386.	7.5	12
88	Legs of male fiddler crabs evolved to compensate for claw exaggeration and enhance claw functionality during waving displays. <i>Evolution; International Journal of Organic Evolution</i> , 2018, 72, 2491-2502.	2.3	12
89	Scattered paddock trees and roadside vegetation can provide important habitat for koalas (<i>Phascolarctos cinereus</i>) in an agricultural landscape. <i>Australian Mammalogy</i> , 2020, 42, 194.	1.1	11
90	Manganese contamination affects the motor performance of wild northern quolls (<i>Dasyurus</i>)	7.5	10

#	ARTICLE	IF	CITATIONS
91	Dribbling speed predicts goal-scoring success in a soccer training game. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2020, 30, 2070-2077.	2.9	10
92	Modeling escape success in terrestrial predator-prey interactions. <i>Integrative and Comparative Biology</i> , 2020, 60, 497-508.	2.0	10
93	Consequences of Metamorphosis for the Locomotor Performance and Thermal Physiology of the Newt <i>Triturus cristatus</i> . <i>Physiological and Biochemical Zoology</i> , 2005, 78, 967-975.	1.5	9
94	The physiological arms race: Exploring thermal acclimation among interacting species. <i>Journal of Thermal Biology</i> , 2012, 37, 236-242.	2.5	9
95	Visual habitat geometry predicts relative morph abundance in the colour-polymorphic ornate rainbowfish. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2013, 280, 20122377.	2.6	9
96	Cooperation Improves Success during Intergroup Competition: An Analysis Using Data from Professional Soccer Tournaments. <i>PLoS ONE</i> , 2015, 10, e0136503.	2.5	9
97	Sex-specific thermal sensitivities of performance and activity in the asian house gecko, <i>Hemidactylus frenatus</i> . <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2018, 188, 635-647.	1.5	9
98	The detrimental acclimation hypothesis. <i>Trends in Ecology and Evolution</i> , 2002, 17, 408.	8.7	8
99	Greater costs of inducible behavioural defences at cooler temperatures in larvae of the mosquito, <i>Aedes notoscriptus</i> . <i>Evolutionary Ecology</i> , 2013, 27, 13-26.	1.2	8
100	Predicting the defensive performance of individual players in one vs. one soccer games. <i>PLoS ONE</i> , 2018, 13, e0209822.	2.5	8
101	Individual performance in passing tests predicts age-independent success in small-sided soccer possession games. <i>Translational Sports Medicine</i> , 2020, 3, 353-363.	1.1	8
102	Receivers Limit the Prevalence of Deception in Humans: Evidence from Diving Behaviour in Soccer Players. <i>PLoS ONE</i> , 2011, 6, e26017.	2.5	8
103	Surface friction alters the agility of a small Australian marsupial. <i>Journal of Experimental Biology</i> , 2018, 221, .	1.7	7
104	Greater agility increases probability of survival in the endangered northern quoll. <i>Journal of Experimental Biology</i> , 2020, 223, .	1.7	7
105	Intertidal gobies acclimate rate of luminance change for background matching with shifts in seasonal temperature. <i>Journal of Animal Ecology</i> , 2020, 89, 1735-1746.	2.8	7
106	Multidimensional analyses of physical performance reveal a size-dependent trade-off between suites of traits. <i>Functional Ecology</i> , 2018, 32, 1541-1553.	3.6	6
107	Self-deception in nonhuman animals: weak crayfish escalated aggression as if they were strong. <i>Behavioral Ecology</i> , 2019, 30, 1469-1476.	2.2	6
108	Demography and spatial requirements of the endangered northern quoll on Groote Eylandt. <i>Wildlife Research</i> , 2020, 47, 224.	1.4	6

#	ARTICLE	IF	CITATIONS
109	Combining studies of comparative physiology and behavioural ecology to test the adaptive benefits of thermal acclimation. <i>International Congress Series</i> , 2004, 1275, 201-208.	0.2	5
110	Detecting deceptive behaviour after the fact. <i>British Journal of Social Psychology</i> , 2016, 55, 195-205.	2.8	5
111	Rocky escarpment versus savanna woodlands: comparing diet and body condition as indicators of habitat quality for the endangered northern quoll (<i>Dasyurus hallucatus</i>). <i>Wildlife Research</i> , 2021, 48, 434.	1.4	5
112	Age- and size-corrected kicking speed and accuracy in elite junior soccer players. <i>Science and Medicine in Football</i> , 2022, 6, 29-39.	2.0	5
113	Anticipating the Direction of Soccer Penalty Shots Depends on the Speed and Technique of the Kick. <i>Sports</i> , 2018, 6, 73.	1.7	4
114	Testing for Short- and Long-Term Thermal Plasticity in Corticosterone Responses of an Ectothermic Vertebrate. <i>Physiological and Biochemical Zoology</i> , 2018, 91, 967-975.	1.5	4
115	Technical skill not athleticism predicts an individual's ability to maintain possession in small-sided soccer games. <i>Science and Medicine in Football</i> , 2020, 4, 305-313.	2.0	4
116	Simple and reliable protocol for identifying talented junior players in team sports using small-sided games. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2021, 31, 1647-1656.	2.9	4
117	Introduction to the Symposium: Towards a General Framework for Predicting Animal Movement Speeds in Nature. <i>Integrative and Comparative Biology</i> , 2015, 55, icv107.	2.0	3
118	Warmer temperatures reduce the costs of inducible defences in the marine toad, <i>Rhinella marinus</i> . <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2016, 186, 123-130.	1.5	3
119	Machine learning accurately predicts the multivariate performance phenotype from morphology in lizards. <i>PLoS ONE</i> , 2022, 17, e0261613.	2.5	3
120	Integrating conservation biology into the development of automated vehicle technology to reduce animal-vehicle collisions. <i>Conservation Letters</i> , 2018, 11, e12427.	5.7	2
121	Identifying the best strategy for soccer penalty success: A predictive model for optimising behavioural and biomechanical trade-offs. <i>Journal of Biomechanics</i> , 2022, 141, 111208.	2.1	1