Raymond B Huey

List of Publications by Citations

88 papers	16,829 citations	56 h-index	91 g-index
91 ext. papers	19,262 ext. citations	8.4 avg, IF	6.74 L-index

#	Paper	IF	Citations
88	Impacts of climate warming on terrestrial ectotherms across latitude. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 6668-72	11.5	2208
87	Integrating Thermal Physiology and Ecology of Ectotherms: A Discussion of Approaches. *American Zoologist*, **1979**, 19, 357-366		917
86	Predicting organismal vulnerability to climate warming: roles of behaviour, physiology and adaptation. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2012**, 367, 1665-79	5.8	778
85	Cost and benefits of lizard thermoregulation. *Quarterly Review of Biology*, **1976**, 51, 363-84	5.4	666
84	Ecology. Putting the heat on tropical animals. *Science*, **2008**, 320, 1296-7	33.3	637
83	Thermal-safety margins and the necessity of thermoregulatory behavior across latitude and elevation. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 5610-5	11.5	630
82	Evaluating temperature regulation by field-active ectotherms: the fallacy of the inappropriate question. *American Naturalist*, **1993**, 142, 796-818	3.7	618
81	Why tropical forest lizards are vulnerable to climate warming. *Proceedings of the Royal Society B: Biological Sciences*, **2009**, 276, 1939-48	4.4	566
80	Global metabolic impacts of recent climate warming. *Nature*, **2010**, 467, 704-6	50.4	557
79	Physiological Consequences of Habitat Selection. *American Naturalist*, **1991**, 137, S91-S115	3.7	555
78	Are mountain passes higher in the tropics? Janzen's hypothesis revisited. *Integrative and Comparative Biology*, **2006**, 46, 5-17	2.8	516
77	Behavioral drive versus behavioral inertia in evolution: a null model approach. *American Naturalist*, **2003**, 161, 357-66	3.7	486
76	PHYLOGENETIC STUDIES OF COADAPTATION: PREFERRED TEMPERATURES VERSUS OPTIMAL PERFORMANCE TEMPERATURES OF LIZARDS. *Evolution; International Journal of Organic Evolution*, **1987**, 41, 1098-1115	3.8	453
75	Increase in crop losses to insect pests in a warming climate. *Science*, **2018**, 361, 916-919	33.3	410
74	Why "suboptimal" is optimal: Jensen's inequality and ectotherm thermal preferences. *American Naturalist*, **2008**, 171, E102-18	3.7	408
73	Can we predict ectotherm responses to climate change using thermal performance curves and body temperatures?. *Ecology Letters*, **2016**, 19, 1372-1385	10	377
72	Ecophysiology. Climate change tightens a metabolic constraint on marine habitats. *Science*, **2015**, 348, 1132-5	33.3	363

71	Evolution of Resistance to High Temperature in Ectotherms. *American Naturalist*, **1993**, 142, S21-S46	3.7	354
70	Hot Rocks and Not-So-Hot Rocks: Retreat-Site Selection by Garter Snakes and Its Thermal Consequences. *Ecology*, **1989**, 70, 931-944	4.6	278
69	Global genetic change tracks global climate warming in Drosophila subobscura. *Science*, **2006**, 313, 1773-5	33.3	273
68	IS A JACK-OF-ALL-TEMPERATURES A MASTER OF NONE?. *Evolution; International Journal of Organic Evolution*, **1984**, 38, 441-444	3.8	265
67	Thermodynamics constrains the evolution of insect population growth rates: "warmer is better". *American Naturalist*, **2006**, 168, 512-20	3.7	223
66	HOMAGE TO SANTA ANITA: THERMAL SENSITIVITY OF SPRINT SPEED IN AGAMID LIZARDS. *Evolution; International Journal of Organic Evolution*, **1983**, 37, 1075-1084	3.8	222
65	Testing the Adaptive Significance of Acclimation: A Strong Inference Approach. *American Zoologist*, **1999**, 39, 323-336		201
64	Hypoxia, global warming, and terrestrial late Permian extinctions. *Science*, **2005**, 308, 398-401	33.3	188
63	Evolutionary Physiology. *Annual Review of Ecology, Evolution, and Systematics*, **2000**, 31, 315-341		176
62	Phylogenetic Studies of Coadaptation: Preferred Temperatures Versus Optimal Performance Temperatures of Lizards. *Evolution; International Journal of Organic Evolution*, **1987**, 41, 1098	3.8	169
61	THERMAL SENSITIVITY OF DROSOPHILA MELANOGASTER RESPONDS RAPIDLY TO LABORATORY NATURAL SELECTION. *Evolution; International Journal of Organic Evolution*, **1991**, 45, 751-756	3.8	166
60	WITHIN- AND BETWEEN-GENERATION EFFECTS OF TEMPERATURE ON THE MORPHOLOGY AND PHYSIOLOGY OF DROSOPHILA MELANOGASTER. *Evolution; International Journal of Organic Evolution*, **1996**, 50, 1205-1218	3.8	152
59	Seasonal Variation in Thermoregulatory Behavior and Body Temperature of Diurnal Kalahari Lizards. *Ecology*, **1977**, 58, 1066-1075	4.6	144
58	Locomotor impairment and defense in gravid lizards (Eumeces laticeps): behavioral shift in activity may offset costs of reproduction in an active forager. *Behavioral Ecology and Sociobiology*, **1990**, 27, 153-157	2.5	142
57	Locomotor performance of hatchling fence lizards (Sceloporus occidentalis): Quantitative genetics and morphometric correlates. *Evolutionary Ecology*, **1989**, 3, 240-252	1.8	123
56	Rapid evolution of wing size clines in Drosophila subobscura. *Genetica*, **2001**, 112/113, 273-286	1.5	122
55	REPEATABILITY OF LOCOMOTOR PERFORMANCE IN NATURAL POPULATIONS OF THE LIZARD SCELOPORUS MERRIAMI. *Evolution; International Journal of Organic Evolution*, **1987**, 41, 1116-1120	3.8	122
54	PHYLOGENY AND COADAPTATION OF THERMAL PHYSIOLOGY IN LIZARDS: A REANALYSIS. *Evolution; International Journal of Organic Evolution*, **1991**, 45, 1969-1975	3.8	121

53	Can behavior douse the fire of climate warming?. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 3647-8	11.5	107
52	Evolution caused by extreme events. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2017**, 372,	5.8	102
51	The direct response of Drosophila melanogaster to selection on knockdown temperature. *Heredity*, **1999**, 83 (Pt 1), 15-29	3.6	97
50	Temperature extremes: geographic patterns, recent changes, and implications for organismal vulnerabilities. *Global Change Biology*, **2016**, 22, 3829-3842	11.4	97
49	Locomotor performance of Drosophila melanogaster: interactions among developmental and adult temperatures, age, and geography. *Evolution; International Journal of Organic Evolution*, **2001**, 55, 205-9	3.8	93
48	Within- and between-generation effects of temperature on early fecundity of Drosophila melanogaster. *Heredity*, **1995**, 74 (Pt 2), 216-23	3.6	93
47	CHROMOSOMAL ANALYSIS OF HEAT-SHOCK TOLERANCE IN DROSOPHILA MELANOGASTER EVOLVING AT DIFFERENT TEMPERATURES IN THE LABORATORY. *Evolution; International Journal of Organic Evolution*, **1995**, 49, 676-684	3.8	90
46	Ecology. Are lizards toast?. *Science*, **2010**, 328, 832-3	33.3	88
45	How Extreme Temperatures Impact Organisms and the Evolution of their Thermal Tolerance. *Integrative and Comparative Biology*, **2016**, 56, 98-109	2.8	88
44	Evolutionary pace of chromosomal polymorphism in colonizing populations of Drosophila subobscura: an evolutionary time series. *Evolution; International Journal of Organic Evolution*, **2003**, 57, 1837-45	3.8	81
43	Plants versus animals: do they deal with stress in different ways?. *Integrative and Comparative Biology*, **2002**, 42, 415-23	2.8	81
42	Effects of Body Size and Slope on Acceleration of a Lizard (Stellio Stellio). *Journal of Experimental Biology*, **1984**, 110, 113-123	3	78
41	Within- and Between-Generation Effects of Temperature on the Morphology and Physiology of Drosophila melanogaster. *Evolution; International Journal of Organic Evolution*, **1996**, 50, 1205	3.8	74
40	Latitudinal Pattern of Between-Altitude Faunal Similarity: Mountains Might be "Higher" in the Tropics. *American Naturalist*, **1978**, 112, 225-229	3.7	74
39	TESTING SYMMORPHOSIS: DOES STRUCTURE MATCH FUNCTIONAL REQUIREMENTS?. *Evolution; International Journal of Organic Evolution*, **1987**, 41, 1404-1409	3.8	73
38	Parental and developmental temperature effects on the thermal dependence of fitness in Drosophila melanogaster. *Evolution; International Journal of Organic Evolution*, **2001**, 55, 209-14	3.8	67
37	Climate Warming, Resource Availability, and the Metabolic Meltdown of Ectotherms. *American Naturalist*, **2019**, 194, E140-E150	3.7	61
36	Partial thermoregulatory compensation by a rapidly evolving invasive species along a latitudinal cline. *Ecology*, **2009**, 90, 1715-20	4.6	61

35	Physiological Consequences of Thermoregulation in a Tropical Lizard (Ameiva festiva). *Physiological Zoology*, **1986**, 59, 464-472		60
34	Variation in universal temperature dependence of biological rates. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 10377-8	11.5	59
33	Ocean deoxygenation: Past, present, and future. *Eos*, **2011**, 92, 409-410	1.5	58
32	Sexual size dimorphism in a Drosophila clade, the D. obscura group. *Zoology*, **2006**, 109, 318-30	1.7	49
31	The Parasol Tail and Thermoregulatory Behavior of the Cape Ground Squirrel Xerus inauris. *Physiological Zoology*, **1984**, 57, 57-62		47
30	Asynchronous evolution of physiology and morphology in Anolis lizards. *Evolution; International Journal of Organic Evolution*, **2013**, 67, 2101-13	3.8	44
29	Does thermoregulatory behavior maximize reproductive fitness of natural isolates of Caenorhabditis elegans?. *BMC Evolutionary Biology*, **2011**, 11, 157	3	39
28	Limits to human performance: elevated risks on high mountains. *Journal of Experimental Biology*, **2001**, 204, 3115-3119	3	39
27	Clinal patterns of desiccation and starvation resistance in ancestral and invading populations of Drosophila subobscura. *Evolutionary Applications*, **2008**, 1, 513-23	4.8	37
26	Lizard thermal biology: do genders differ?. *American Naturalist*, **2007**, 170, 473-8	3.7	33
25	Parapatry and niche complementarity of Peruvian Desert geckos (Phyllodactylus): the ambiguous role of competition. *Oecologia*, **1979**, 38, 249-259	2.9	31
24	Effects of age and gender on success and death of mountaineers on Mount Everest. *Biology Letters*, **2007**, 3, 498-500	3.6	28
23	Disentangling thermal preference and the thermal dependence of movement in ectotherms. *Journal of Thermal Biology*, **2012**, 37, 631-639	2.9	25
22	Revisiting a Key Innovation in Evolutionary Biology: Felsenstein's "Phylogenies and the Comparative Method". *American Naturalist*, **2019**, 193, 755-772	3.7	23
21	Three questions about the eco-physiology of overwintering underground. *Ecology Letters*, **2021**, 24, 170-185	10	18
20	A Few Meters Matter: Local Habitats Drive Reproductive Cycles in a Tropical Lizard. *American Naturalist*, **2015**, 186, E72-80	3.7	17
19	Climate warming and environmental sex determination in tuatara: the last of the Sphenodontians?. *Proceedings of the Royal Society B: Biological Sciences*, **2008**, 275, 2181-3	4.4	14
18	Body temperature distributions of active diurnal lizards in three deserts: Skewed up or skewed down?. *Functional Ecology*, **2018**, 32, 334-344	5.6	13

17	Mutation accumulation, performance, fitness. *Integrative and Comparative Biology*, **2003**, 43, 387-95	2.8	12
16	A global test of the cold-climate hypothesis for the evolution of viviparity of squamate reptiles. *Global Ecology and Biogeography*, **2018**, 27, 679-689	6.1	11
15	Mountaineers on Mount Everest: Effects of age, sex, experience, and crowding on rates of success and death. *PLoS ONE*, **2020**, 15, e0236919	3.7	11
14	HOW OFTEN DO LIZARDS RUN ON EMPTY? *Ecology*, **2001**, 82, 1-7	4.6	10
13	Comment on "Global genetic change tracks global climate warming in Drosophila subobscura". *Science*, **2007**, 315, 1497; author reply 1497	33.3	9
12	Neuroscience and evolution. Snake sodium channels resist TTX arrest. *Science*, **2002**, 297, 1289-90	33.3	9
11	Temperature regulation in free-ranging ectotherms: what are the appropriate questions?. *African Journal of Herpetology*, **1999**, 48, 41-48	0.6	8
10	Bart's familiar quotations: the enduring biological wisdom of George A. Bartholomew. *Physiological and Biochemical Zoology*, **2008**, 81, 519-25	2	6
9	Lizards, toepads, and the ghost of hurricanes past. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 11194-11196	11.5	3
8	ECOLOGY. How frigate birds soar around the doldrums. *Science*, **2016**, 353, 26-7	33.3	3
7	Introduction: a symposium honoring george a. Bartholomew. *Integrative and Comparative Biology*, **2005**, 45, 217-8	2.8	3
6	Dynamics of death by heat. *Science*, **2020**, 369, 1163	33.3	3
5	On Becoming a Better Scientist. *Israel Journal of Ecology and Evolution*, **2010**, 57, 293-307	0.8	2
4	Modelling the joint effects of body size and microclimate on heat budgets and foraging opportunities of ectotherms. *Methods in Ecology and Evolution*, **2021**, 12, 458-467	7.7	2
3	Distribution modelling of an introduced species: do adaptive genetic markers affect potential range?. *Proceedings of the Royal Society B: Biological Sciences*, **2020**, 287, 20201791	4.4	1
2	Seasonality in Kgalagadi Lizards: Inferences from Legacy Data. *American Naturalist*, **2021**, 198, 759-771	3.7	0
1	Model vs. experiment to predict crop losses-Response. *Science*, **2018**, 362, 1122-1123	33.3	