Raymond B Huey

List of Publications by Year
in descending order

90 papers	21,669 citations	26610 56 h-index	46771 89 g-index
91 all docs	91 docs citations	91 times ranked	14547 citing authors

#	Article	IF	Citations
1	Impacts of climate warming on terrestrial ectotherms across latitude. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 6668-6672.	3.3	2,833
2	Integrating Thermal Physiology and Ecology of Ectotherms: A Discussion of Approaches. American Zoologist, 1979, 19, 357-366.	0.7	1,173
3	Predicting organismal vulnerability to climate warming: roles of behaviour, physiology and adaptation. Philosophical Transactions of the Royal Society B: Biological Sciences, 2012, 367, 1665-1679.	1.8	1,049
4	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, 5610-5615.	3.3	906
5	Cost and Benefits of Lizard Thermoregulation. Quarterly Review of Biology, 1976, 51, 363-384.	0.0	869
6	Putting the Heat on Tropical Animals. Science, 2008, 320, 1296-1297.	6.0	788
7	Increase in crop losses to insect pests in a warming climate. Science, 2018, 361, 916-919.	6.0	764
8	Evaluating Temperature Regulation by Field-Active Ectotherms: The Fallacy of the Inappropriate Question. American Naturalist, 1993, 142, 796-818.	1.0	731
9	Global metabolic impacts of recent climate warming. Nature, 2010, 467, 704-706.	13.7	729
10	Why tropical forest lizards are vulnerable to climate warming. Proceedings of the Royal Society B: Biological Sciences, 2009, 276, 1939-1948.	1.2	700
11	Physiological Consequences of Habitat Selection. American Naturalist, 1991, 137, S91-S115.	1.0	680
12	Are mountain passes higher in the tropics? janzen's hypothesis revisited. Integrative and Comparative Biology, 2006, 46, 5-17.	0.9	642
13	Behavioral Drive versus Behavioral Inertia in Evolution: A Null Model Approach. American Naturalist, 2003, 161, 357-366.	1.0	617
14	Can we predict ectotherm responses to climate change using thermal performance curves and body temperatures?. Ecology Letters, 2016, 19, 1372-1385.	3.0	587
15	Climate change tightens a metabolic constraint on marine habitats. Science, 2015, 348, 1132-1135.	6.0	547
16	Why â€œSuboptimalâ€•Is Optimal: Jensenâ€™s Inequality and Ectotherm Thermal Preferences. American Naturalist, 2008, 171, E102-E118.	1.0	505
17	PHYLOGENETIC STUDIES OF COADAPTATION: PREFERRED TEMPERATURES VERSUS OPTIMAL PERFORMANCE TEMPERATURES OF LIZARDS. Evolution; International Journal of Organic Evolution, 1987, 41, 1098-1115.	1.1	503
18	Evolution of Resistance to High Temperature in Ectotherms. American Naturalist, 1993, 142, S21-S46.	1.0	420

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19	Hot Rocks and Not-So-Hot Rocks: Retreat-Site Selection by Garter Snakes and Its Thermal Consequences. Ecology, 1989, 70, 931-944.	1.5	376
20	Global Genetic Change Tracks Global Climate Warming in Drosophila subobscura. Science, 2006, 313, 1773-1775.	6.0	324
21	IS A JACKâ€OFâ€ALLâ€TEMPERATURES A MASTER OF NONE?. Evolution; International Journal of Organic Evolution, 1984, 38, 441-444.	1.1	293
22	Thermodynamics Constrains the Evolution of Insect Population Growth Rates: â€œWarmer Is Betterâ€. American Naturalist, 2006, 168, 512-520.	1.0	272
23	HOMAGE TO SANTA ANITA: THERMAL SENSITIVITY OF SPRINT SPEED IN AGAMID LIZARDS. Evolution; International Journal of Organic Evolution, 1983, 37, 1075-1084.	1.1	244
24	Testing the Adaptive Significance of Acclimation: A Strong Inference Approach. American Zoologist, 1999, 39, 323-336.	0.7	239
25	Seasonal Variation in Thermoregulatory Behavior and Body Temperature of Diurnal Kalahari Lizards. Ecology, 1977, 58, 1066-1075.	1.5	221
26	Hypoxia, Global Warming, and Terrestrial Late Permian Extinctions. Science, 2005, 308, 398-401.	6.0	220
27	Phylogenetic Studies of Coadaptation: Preferred Temperatures Versus Optimal Performance Temperatures of Lizards. Evolution; International Journal of Organic Evolution, 1987, 41, 1098.	1.1	198
28	Evolutionary Physiology. Annual Review of Ecology, Evolution, and Systematics, 2000, 31, 315-341.	6.7	186
29	THERMAL SENSITIVITY OF <i>DROSOPHILA MELANOGASTER</i> RESPONDS RAPIDLY TO LABORATORY NATURAL SELECTION. Evolution; International Journal of Organic Evolution, 1991, 45, 751-756.	1.1	176
30	Evolution caused by extreme events. Philosophical Transactions of the Royal Society B: Biological Sciences, 2017, 372, 20160146.	1.8	170
31	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.	0.6	164
32	WITHINâ€•AND BETWEENâ€GENERATION EFFECTS OF TEMPERATURE ON THE MORPHOLOGY AND PHYSIOLOGY OF <i>DROSOPHILA MELANOGASTER</i>. Evolution; International Journal of Organic Evolution, 1996, 50, 1205-1218.	1.1	162
33	Climate Warming, Resource Availability, and the Metabolic Meltdown of Ectotherms. American Naturalist, 2019, 194, E140-E150.	1.0	156
34	Rapid evolution of wing size clines in Drosophila subobscura. Genetica, 2001, 112/113, 273-286.	0.5	151
35	Temperature extremes: geographic patterns, recent changes, and implications for organismal vulnerabilities. Global Change Biology, 2016, 22, 3829-3842.	4.2	142
36	Locomotor performance of hatchling fence lizards (Sceloporus occidentalis): Quantitative genetics and morphometric correlates. Evolutionary Ecology, 1989, 3, 240-252.	0.5	138

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37	REPEATABILITY OF LOCOMOTOR PERFORMANCE IN NATURAL POPULATIONS OF THE LIZARD <i>SCELOPORUS MERRIAMI</i>. Evolution; International Journal of Organic Evolution, 1987, 41, 1116-1120.	1.1	132
38	How Extreme Temperatures Impact Organisms and the Evolution of their Thermal Tolerance. Integrative and Comparative Biology, 2016, 56, 98-109.	0.9	130
39	PHYLOGENY AND COADAPTATION OF THERMAL PHYSIOLOGY IN LIZARDS: A REANALYSIS. Evolution; International Journal of Organic Evolution, 1991, 45, 1969-1975.	1.1	128
40	Can behavior douse the fire of climate warming?. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 3647-3648.	3.3	122
41	Are Lizards Toast?. Science, 2010, 328, 832-833.	6.0	113
42	Plants Versus Animals: Do They Deal with Stress in Different Ways?. Integrative and Comparative Biology, 2002, 42, 415-423.	0.9	110
43	The direct response of Drosophila melanogaster to selection on knockdown temperature. Heredity, 1999, 83, 15-29.	1.2	109
44	Within- and between-generation effects of temperature on early fecundity of Drosophila melanogaster. Heredity, 1995, 74, 216-223.	1.2	101
45	CHROMOSOMAL ANALYSIS OF HEATâ€SHOCK TOLERANCE IN <i>DROSOPHILA MELANOGASTER</i> EVOLVING AT DIFFERENT TEMPERATURES IN THE LABORATORY. Evolution; International Journal of Organic Evolution, 1995, 49, 676-684.	1.1	98
46	Within- and Between-Generation Effects of Temperature on the Morphology and Physiology of Drosophila melanogaster. Evolution; International Journal of Organic Evolution, 1996, 50, 1205.	1.1	97
47	LOCOMOTOR PERFORMANCE OF DROSOPHILA MELANOGASTER: INTERACTIONS AMONG DEVELOPMENTAL AND ADULT TEMPERATURES, AGE, AND GEOGRAPHY. Evolution; International Journal of Organic Evolution, 2001, 55, 205-209.	1.1	97
48	Effects of Body Size and Slope on Acceleration of a Lizard (<i>Stellio Stellio</i>). Journal of Experimental Biology, 1984, 110, 113-123.	0.8	96
49	EVOLUTIONARY PACE OF CHROMOSOMAL POLYMORPHISM IN COLONIZING POPULATIONS OF DROSOPHILA SUBOBSCURA: AN EVOLUTIONARY TIME SERIES. Evolution; International Journal of Organic Evolution, 2003, 57, 1837-1845.	1.1	89
50	TESTING SYMMORPHOSIS: DOES STRUCTURE MATCH FUNCTIONAL REQUIREMENTS?. Evolution; International Journal of Organic Evolution, 1987, 41, 1404-1409.	1.1	82
51	Latitudinal Pattern of Between-Altitude Faunal Similarity: Mountains Might be "Higher" in the Tropics. American Naturalist, 1978, 112, 225-229.	1.0	81
52	Physiological Consequences of Thermoregulation in a Tropical Lizard (Ameiva festiva). Physiological Zoology, 1986, 59, 464-472.	1.5	78
53	Ocean deoxygenation: Past, present, and future. Eos, 2011, 92, 409-410.	0.1	75
54	PARENTAL AND DEVELOPMENTAL TEMPERATURE EFFECTS ON THE THERMAL DEPENDENCE OF FITNESS IN DROSOPHILA MELANOGASTER. Evolution; International Journal of Organic Evolution, 2001, 55, 209-214.	1.1	72

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55	Variation in universal temperature dependence of biological rates. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 10377-10378.	3.3	71
56	Partial thermoregulatory compensation by a rapidly evolving invasive species along a latitudinal cline. Ecology, 2009, 90, 1715-1720.	1.5	68
57	Sexual size dimorphism in a Drosophila clade, the D. obscura group. Zoology, 2006, 109, 318-330.	0.6	63
58	Limits to human performance: elevated risks on high mountains. Journal of Experimental Biology, 2001, 204, 3115-3119.	0.8	57
59	ASYNCHRONOUS EVOLUTION OF PHYSIOLOGY AND MORPHOLOGY IN<i>ANOLIS</i>LIZARDS. Evolution; International Journal of Organic Evolution, 2013, 67, 2101-2113.	1.1	54
60	The Parasol Tail and Thermoregulatory Behavior of the Cape Ground Squirrel Xerus inauris. Physiological Zoology, 1984, 57, 57-62.	1.5	53
61	Does thermoregulatory behavior maximize reproductive fitness of natural isolates of Caenorhabditis elegans?. BMC Evolutionary Biology, 2011, 11, 157.	3.2	51
62	Parapatry and niche complementarity of Peruvian Desert geckos (Phyllodactylus): the ambiguous role of competition. Oecologia, 1979, 38, 249-259.	0.9	46
63	Revisiting a Key Innovation in Evolutionary Biology: Felsensteinâ€™s â€œPhylogenies and the Comparative Methodâ€. American Naturalist, 2019, 193, 755-772.	1.0	44
64	Clinal patterns of desiccation and starvation resistance in ancestral and invading populations ofâ€‚<i>Drosophila subobscura</i>. Evolutionary Applications, 2008, 1, 513-523.	1.5	43
65	Three questions about the ecoâ€physiology of overwintering underground. Ecology Letters, 2021, 24, 170-185.	3.0	42
66	Lizard Thermal Biology: Do Genders Differ?. American Naturalist, 2007, 170, 473-478.	1.0	39
67	Effects of age and gender on success and death of mountaineers on Mount Everest. Biology Letters, 2007, 3, 498-500.	1.0	36
68	Disentangling thermal preference and the thermal dependence of movement in ectotherms. Journal of Thermal Biology, 2012, 37, 631-639.	1.1	35
69	HOW OFTEN DO LIZARDS â€œRUN ON EMPTYâ€?. Ecology, 2001, 82, 1-7.	1.5	33
70	A global test of the coldâ€climate hypothesis for the evolution of viviparity of squamate reptiles. Global Ecology and Biogeography, 2018, 27, 679-689.	2.7	29
71	Mountaineers on Mount Everest: Effects of age, sex, experience, and crowding on rates of success and death. PLoS ONE, 2020, 15, e0236919.	1.1	26
72	A Few Meters Matter: Local Habitats Drive Reproductive Cycles in a Tropical Lizard. American Naturalist, 2015, 186, E72-E80.	1.0	24

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73	Climate warming and environmental sex determination in tuatara: the Last of the Sphenodontians?. Proceedings of the Royal Society B: Biological Sciences, 2008, 275, 2181-2183.	1.2	19
74	Body temperature distributions of active diurnal lizards in three deserts: Skewed up or skewed down?. Functional Ecology, 2018, 32, 334-344.	1.7	18
75	Biological buffers and the impacts of climate change. Integrative Zoology, 2018, 13, 349-354.	1.3	16
76	Mutation Accumulation, Performance, Fitness. Integrative and Comparative Biology, 2003, 43, 387-395.	0.9	14
77	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.	2.2	13
78	NEUROSCIENCE AND EVOLUTION: Snake Sodium Channels Resist TTX Arrest. Science, 2002, 297, 1289-1290.	6.0	12
79	Designing a Seasonal Acclimation Study Presents Challenges and Opportunities. Integrative Organismal Biology, 2022, 4, .	0.9	12
80	Response to Comment on "Global Genetic Change Tracks Global Climate Warming in Drosophila subobscura". Science, 2007, 315, 1497b-1497b.	6.0	11
81	Dynamics of death by heat. Science, 2020, 369, 1163-1163.	6.0	10
82	Temperature regulation in free-ranging ectotherms: what are the appropriate questions?. African Journal of Herpetology, 1999, 48, 41-48.	0.3	9
83	Bartâ€™s Familiar Quotations: The Enduring Biological Wisdom of George A. Bartholomew. Physiological and Biochemical Zoology, 2008, 81, 519-525.	0.6	8
84	Seasonality in Kgalagadi Lizards: Inferences from Legacy Data. American Naturalist, 2021, 198, 759-771.	1.0	8
85	Distribution modelling of an introduced species: do adaptive genetic markers affect potential range?. Proceedings of the Royal Society B: Biological Sciences, 2020, 287, 20201791.	1.2	5
86	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.	3.3	5
87	How frigate birds soar around the doldrums. Science, 2016, 353, 26-27.	6.0	4
88	Introduction: A Symposium Honoring George A. Bartholomew. Integrative and Comparative Biology, 2005, 45, 217-218.	0.9	3
89	On Becoming a Better Scientist. Israel Journal of Ecology and Evolution, 2010, 57, 293-307.	0.2	3
90	Model vs. experiment to predict crop lossesâ€"Response. Science, 2018, 362, 1122-1123.	6.0	0