Douglas S Glazier

List of Publications by Year
in descending order

62	4,331	159585 30	128289 60
papers	citations	h-index	g-index

63	63	63	3278
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A quantitative genetics perspective on the body-mass scaling of metabolic rate. Journal of Experimental Biology, 2022, 225, .	1.7	5
2	Complications with body-size correction in comparative biology: possible solutions and an appeal for new approaches. Journal of Experimental Biology, 2022, 225, .	1.7	16
3	Urgent plea for global protection of springs. Conservation Biology, 2021, 35, 378-382.	4.7	38
4	Genome Size Covaries More Positively with Propagule Size than Adult Size: New Insights into an Old Problem. Biology, 2021, 10, 270.	2.8	15
5	Biological scaling analyses are more than statistical line fitting. Journal of Experimental Biology, 2021, 224, .	1.7	30
6	Temperature effects on metabolic scaling of a keystone freshwater crustacean depend on fish-predation regime. Journal of Experimental Biology, 2020, 223, .	1.7	19
7	Temperature and predator cues interactively affect ontogenetic metabolic scaling of aquatic amphipods. Biology Letters, 2020, 16, 20200267.	2.3	18
8	Commentary: On the Interpretation of the Normalization Constant in the Scaling Equation. Frontiers in Ecology and Evolution, 2020, 8, .	2.2	4
9	Activity alters how temperature influences intraspecific metabolic scaling: testing the metabolic-level boundaries hypothesis. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2020, 190, 445-454.	1.5	32
10	Effects of Fish Predators on the Mass-Related Energetics of a Keystone Freshwater Crustacean. Biology, 2020, 9, 40.	2.8	25
11	A Perspective on Body Size and Abundance Relationships across Ecological Communities. Biology, 2020, 9, 42.	2.8	8
12	Ecological pressures and the contrasting scaling of metabolism and body shape in coexisting taxa: cephalopods versus teleost fish. Philosophical Transactions of the Royal Society B: Biological Sciences, 2019, 374, 20180543.	4.0	27
13	Resource Supply and Demand Both Affect Metabolic Scaling: A Response to Harrison. Trends in Ecology and Evolution, 2018, 33, 237-238.	8.7	13
14	Effects of Contingency versus Constraints on the Body-Mass Scaling of Metabolic Rate. Challenges, 2018, 9, 4.	1.7	23
15	Rediscovering and Reviving Old Observations and Explanations of Metabolic Scaling in Living Systems. Systems, 2018, 6, 4.	2.3	52
16	Clutch Mass, Offspring Mass, and Clutch Size: Body Mass Scaling and Taxonomic and Environmental Variation. , 2018, , 68-97.		2
17	Asymmetric geographic range expansion explains the latitudinal diversity gradients of four major taxa of marine plankton. Paleobiology, 2017, 43, 196-208.	2.0	19
18	Ecology of ontogenetic body-mass scaling of gill surface area in a freshwater crustacean. Journal of Experimental Biology, 2017, 220, 2120-2127.	1.7	17

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19	Sexual dimorphism and physiological correlates of horn length in a South African isopod crustacean. Journal of Zoology, 2016, 300, 99-110.	1.7	9
20	Ecological Influences and Morphological Correlates of Resting and Maximal Metabolic Rates across Teleost Fish Species. American Naturalist, 2016, 187, 592-606.	2.1	188
21	Arboreal Herbivory by a Semi-Terrestrial South African Isopod Crustacean,Tylos capensisKrauss (Isopoda: Tylidae), on the Bietou Bush,Chrysanthemoides monilifera(L.) Norlindh. African Invertebrates, 2015, 56, 729-738.	0.5	2
22	Body-Mass Scaling of Metabolic Rate: What are the Relative Roles of Cellular versus Systemic Effects?. Biology, 2015, 4, 187-199.	2.8	38
23	Shape shifting predicts ontogenetic changes in metabolic scaling in diverse aquatic invertebrates. Proceedings of the Royal Society B: Biological Sciences, 2015, 282, 20142302.	2.6	52
24	Is metabolic rate a universal â€˜pacemakerâ€™ for biological processes?. Biological Reviews, 2015, 90, 377-407.	10.4	249
25	Scaling of Metabolic Scaling within Physical Limits. Systems, 2014, 2, 425-450.	2.3	66
26	Body shape shifting during growth permits tests that distinguish between competing geometric theories of metabolic scaling. Ecology Letters, 2014, 17, 1274-1281.	6.4	88
27	Metabolic Scaling in Complex Living Systems. Systems, 2014, 2, 451-540.	2.3	140
28	High metabolic and water-loss rates in caterpillar aggregations: evidence against the resource-conservation hypothesis. Journal of Experimental Biology, 2013, 216, 4321-5.	1.7	13
29	Log-transformation is useful for examining proportional relationships in allometric scaling. Journal of Theoretical Biology, 2013, 334, 200-203.	1.7	65
30	Body-size scaling of metabolic rate in the trilobiteEldredgeops rana. Paleobiology, 2013, 39, 109-122.	2.0	16
31	Similar offspring production by normal and intersex females in two populations of Gammarus minus (Malacostraca, Amphipoda) with high levels of intersexuality. Crustaceana, 2012, 85, 801-815.	0.3	4
32	Temperature affects food-chain length and macroinvertebrate species richness in spring ecosystems. Freshwater Science, 2012, 31, 575-585.	1.8	27
33	Ecological effects on metabolic scaling: amphipod responses to fish predators in freshwater springs. Ecological Monographs, 2011, 81, 599-618.	5.4	83
34	The amphipod Gammarus minus has larger eyes in freshwater springs with numerous fish predators. Invertebrate Biology, 2011, 130, 60-67.	0.9	29
35	How can habitat size influence leaf litter decomposition in five mid-Appalachian springs (USA)? The importance of the structure of the detritivorous guild. Hydrobiologia, 2010, 654, 227-236.	2.0	17
36	A unifying explanation for diverse metabolic scaling in animals and plants. Biological Reviews, 2010, 85, 111-138.	10.4	321

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37	The intraspecific scaling of metabolic rate with body mass in fishes depends on lifestyle and temperature. Ecology Letters, 2010, 13, 184-193.	6.4	341
38	Ontogenetic body-mass scaling of resting metabolic rate covaries with species-specific metabolic level and body size in spiders and snakes. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2009, 153, 403-407.	1.8	35
39	Activity affects intraspecific body-size scaling of metabolic rate in ectothermic animals. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2009, 179, 821-828.	1.5	101
40	Metabolic level and size scaling of rates of respiration and growth in unicellular organisms. Functional Ecology, 2009, 23, 963-968.	3.6	54
41	Persistently high levels of intersexuality in male-biased amphipod populations. Zoology, 2008, 111, 401-409.	1.2	11
42	Effects of metabolic level on the body size scaling of metabolic rate in birds and mammals. Proceedings of the Royal Society B: Biological Sciences, 2008, 275, 1405-1410.	2.6	130
43	The 3/4-Power Law Is Not Universal: Evolution of Isometric, Ontogenetic Metabolic Scaling in Pelagic Animals. BioScience, 2006, 56, 325.	4.9	166
44	Beyond the â€˜3/4â€power lawâ€™: variation in the intraâ€and interspecific scaling of metabolic rate in animals. Biological Reviews, 2005, 80, 611-662.	10.4	816
45	Competitive ability, body size and geographical range size in small mammals. Journal of Biogeography, 2002, 29, 81-92.	3.0	24
46	RESOURCE-ALLOCATION RULES AND THE HERITABILITY OF TRAITS. Evolution; International Journal of Organic Evolution, 2002, 56, 1696-1700.	2.3	34
47	Smaller amphipod mothers show stronger trade-offs between offspring size and number. Ecology Letters, 2000, 3, 142-149.	6.4	33
48	Is fatter fitter? Body storage and reproduction in ten populations of the freshwater amphipod Gammarus minus. Oecologia, 2000, 122, 335-345.	2.0	74
49	Trade-offs between reproductive and somatic (storage) investments in animals: a comparative test of the Van Noordwijk and De Jong model. Evolutionary Ecology, 1999, 13, 539-555.	1.2	86
50	Variation in offspring investment within and among populations of Gammarus minus SAY (Crustacea:) Tj ETQq0 0 0 rgBT /Overlock 10 T 257-283.	0.7	30
51	Does body storage act as a foodâ€availability cue for adaptive adjustment of egg size and number in Daphnia magna ?. Freshwater Biology, 1998, 40, 87-92.	2.4	27
52	Effects of Food, Genotype, and Maternal Size and Age on Offspring Investment in Daphnia Magna. Ecology, 1992, 73, 910-926.	3.2	193
53	Abundance, body composition and reproductive output of Gammarus minus (Crustacea: Amphipoda) in ten cold springs differing in pH and ionic content. Freshwater Biology, 1992, 28, 149-163.	2.4	38
54	Energy allocation rules inDaphnia magna: clonal and age differences in the effects of food limitation. Oecologia, 1992, 90, 540-549.	2.0	97

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55	Global Patterns of Ecological Efficiency at the Biome-Level. Oikos, 1991, 61, 439.	2.7	1
56	TEMPORAL AND SPATIAL PATTERNS IN MID-APPALACHIAN SPRINGS. Memoirs of the Entomological Society of Canada, 1991, 123, 29-49.	0.5	43
57	Separating the respiration rates of embryos and brooding females of Daphnia magna: Implications for the cost of brooding and the allometry of metabolic rate. Limnology and Oceanography, 1991, 36, 354-361.	3.1	63
58	Reproductive Efficiency and the Timing of Gestation and Lactation in Rodents. American Naturalist, 1990, 135, 269-277.	2.1	7
59	Energetics and Taxonomic Patterns of Species Diversity. Systematic Zoology, 1987, 36, 62.	1.6	19
60	Macroinvertebrate assemblages in Pennsylvania (U.S.A.) springs. Hydrobiologia, 1987, 150, 33-43.	2.0	51
61	Toward a predictive theory of speciation: The ecology of isolate selection. Journal of Theoretical Biology, 1987, 126, 323-333.	1.7	31
62	Relationship between metabolic rate and energy expenditure for lactation in Peromyscus. Comparative Biochemistry and Physiology A, Comparative Physiology, 1985, 80, 587-590.	0.6	55