James F Gillooly

List of Publications by Year
in descending order

38	9,028	279798	330143
papers	citations	23 h-index	37 g-index

42	42	42	12038
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Host cell volume explains differences in the size of DsDNA viruses. Virus Research, 2021, 295, 198321.	2.2	3
2	Evaluating the tradeoff between offspring number and survivorship across fishes, amphibians, reptiles and mammals. Oikos, 2021, 130, 798-807.	2.7	3
3	Predicting egg size across temperatures in marine teleost fishes. Fish and Fisheries, 2020, 21, 1027-1033.	5.3	8
4	Idiographic and nomothetic approaches to heterogeneity are complementary: Response to comments on â€œEvaluating the influences of temperature, primary production, and evolutionary history on bivalve growth ratesâ€. Paleobiology, 2020, 46, 275-277.	2.0	0
5	Allometric scaling of Lyapunov exponents in chaotic populations. Population Ecology, 2020, 62, 364-369.	1.2	5
6	Characterizing the microbiomes of Antarctic sponges: a functional metagenomic approach. Scientific Reports, 2020, 10, 645.	3.3	50
7	Evaluating the influences of temperature, primary production, and evolutionary history on bivalve growth rates. Paleobiology, 2019, 45, 405-420.	2.0	22
8	A broad-scale comparison of aerobic activity levels in vertebrates: endotherms versus ectotherms. Proceedings of the Royal Society B: Biological Sciences, 2017, 284, 20162328.	2.6	33
9	Temperature effects on virion volume and genome length in dsDNA viruses. Biology Letters, 2016, 12, 20160023.	2.3	9
10	Body mass scaling of passive oxygen diffusion in endotherms and ectotherms. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 5340-5345.	7.1	44
11	Energetics of stress: linking plasma cortisol levels to metabolic rate in mammals. Biology Letters, 2016, 12, 20150867.	2.3	76
12	Common metabolic constraints on dive duration in endothermic and ectothermic vertebrates. PeerJ, 2016, 4, e2569.	2.0	8
13	Nuclear DNA Content Varies with Cell Size across Human Cell Types. Cold Spring Harbor Perspectives in Biology, 2015, 7, a019091.	5.5	95
14	Vertebrate blood cell volume increases with temperature: implications for aerobic activity. PeerJ, 2014, 2, e346.	2.0	9
15	Brain size varies with temperature in vertebrates. PeerJ, 2014, 2, e301.	2.0	20
16	Explaining differences in the lifespan and replicative capacity of cells: a general model and comparative analysis of vertebrates. Proceedings of the Royal Society B: Biological Sciences, 2012, 279, 3976-3980.	2.6	20
17	Stridulation byJadera haematoloma(Hemiptera: Rhopalidae): Production Mechanism and Associated Behaviors. Annals of the Entomological Society of America, 2012, 105, 118-127.	2.5	9
18	Energetic and biomechanical constraints on animal migration distance. Ecology Letters, 2012, 15, 104-110.	6.4	127

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19	Energetic basis of colonial living in social insects. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 3634-3638.	7.1	123
20	Eusocial insects as superorganisms. Communicative and Integrative Biology, 2010, 3, 360-362.	1.4	35
21	The energetic basis of acoustic communication. Proceedings of the Royal Society B: Biological Sciences, 2010, 277, 1325-1331.	2.6	136
22	Predicting natural mortality rates of plants and animals. Ecology Letters, 2008, 11, 710-716.	6.4	137
23	Energetic constraints on an early developmental stage: a comparative view. Biology Letters, 2008, 4, 123-126.	2.3	11
24	Scaling of number, size, and metabolic rate of cells with body size in mammals. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 4718-4723.	7.1	262
25	LINKING GLOBAL PATTERNS IN BIODIVERSITY TO EVOLUTIONARY DYNAMICS USING METABOLIC THEORY. Ecology, 2007, 88, 1890-1894.	3.2	66
26	Changes in body temperature influence the scaling of and aerobic scope in mammals. Biology Letters, 2007, 3, 100-103.	2.3	27
27	Effects of metabolic rate on protein evolution. Biology Letters, 2007, 3, 655-660.	2.3	48
28	The mechanistic basis of the metabolic theory of ecology. Oikos, 2007, 116, 1073-1077.	2.7	49
29	Dinosaur Fossils Predict Body Temperatures. PLoS Biology, 2006, 4, e248.	5.6	60
30	The metabolic basis of whole-organism RNA and phosphorus content. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 11923-11927.	7.1	151
31	The rate of DNA evolution: Effects of body size and temperature on the molecular clock. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 140-145.	7.1	441
32	RESPONSE TO FORUM COMMENTARY ON â€œTOWARD A METABOLIC THEORY OF ECOLOGYâ€• Ecology, 2004, 85, 1818-1821.	3.2	47
33	TOWARD A METABOLIC THEORY OF ECOLOGY. Ecology, 2004, 85, 1771-1789.	3.2	5,745
34	Thermodynamic and metabolic effects on the scaling of production and population energy use. Ecology Letters, 2003, 6, 990-995.	6.4	215
35	How reliable is the biological time clock?. Nature, 2003, 424, 270-270.	27.8	5
36	Response to Comment on "Global Biodiversity, Biochemical Kinetics, and the Energetic-Equivalence Rule". Science, 2003, 299, 346c-346.	12.6	11

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37	Allometric scaling of maximum population density: a common rule for marine phytoplankton and terrestrial plants. Ecology Letters, 2002, 5, 611-613.	6.4	120
38	Effects of size and temperature on developmental time. Nature, 2002, 417, 70-73.	27.8	798