

# James F Gillooly

## List of Publications by Year in descending order

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38  
papers

9,028  
citations

279487

23  
h-index

329751

37  
g-index

42  
all docs

42  
docs citations

42  
times ranked

12038  
citing authors

#	ARTICLE	IF	CITATIONS
1	Host cell volume explains differences in the size of DsDNA viruses. <i>Virus Research</i> , 2021, 295, 198321.	1.1	3
2	Evaluating the tradeoff between offspring number and survivorship across fishes, amphibians, reptiles and mammals. <i>Oikos</i> , 2021, 130, 798-807.	1.2	3
3	Predicting egg size across temperatures in marine teleost fishes. <i>Fish and Fisheries</i> , 2020, 21, 1027-1033.	2.7	8
4	Idiographic and nomothetic approaches to heterogeneity are complementary: Response to comments on "Evaluating the influences of temperature, primary production, and evolutionary history on bivalve growth rates". <i>Paleobiology</i> , 2020, 46, 275-277.	1.3	0
5	Allometric scaling of Lyapunov exponents in chaotic populations. <i>Population Ecology</i> , 2020, 62, 364-369.	0.7	5
6	Characterizing the microbiomes of Antarctic sponges: a functional metagenomic approach. <i>Scientific Reports</i> , 2020, 10, 645.	1.6	50
7	Evaluating the influences of temperature, primary production, and evolutionary history on bivalve growth rates. <i>Paleobiology</i> , 2019, 45, 405-420.	1.3	22
8	A broad-scale comparison of aerobic activity levels in vertebrates: endotherms versus ectotherms. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2017, 284, 20162328.	1.2	33
9	Temperature effects on virion volume and genome length in dsDNA viruses. <i>Biology Letters</i> , 2016, 12, 20160023.	1.0	9
10	Body mass scaling of passive oxygen diffusion in endotherms and ectotherms. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 5340-5345.	3.3	44
11	Energetics of stress: linking plasma cortisol levels to metabolic rate in mammals. <i>Biology Letters</i> , 2016, 12, 20150867.	1.0	76
12	Common metabolic constraints on dive duration in endothermic and ectothermic vertebrates. <i>PeerJ</i> , 2016, 4, e2569.	0.9	8
13	Nuclear DNA Content Varies with Cell Size across Human Cell Types. <i>Cold Spring Harbor Perspectives in Biology</i> , 2015, 7, a019091.	2.3	95
14	Vertebrate blood cell volume increases with temperature: implications for aerobic activity. <i>PeerJ</i> , 2014, 2, e346.	0.9	9
15	Brain size varies with temperature in vertebrates. <i>PeerJ</i> , 2014, 2, e301.	0.9	20
16	Explaining differences in the lifespan and replicative capacity of cells: a general model and comparative analysis of vertebrates. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2012, 279, 3976-3980.	1.2	20
17	Stridulation by <i>Jadera haematoloma</i> (Hemiptera: Rhopalidae): Production Mechanism and Associated Behaviors. <i>Annals of the Entomological Society of America</i> , 2012, 105, 118-127.	1.3	9
18	Energetic and biomechanical constraints on animal migration distance. <i>Ecology Letters</i> , 2012, 15, 104-110.	3.0	127

#	ARTICLE	IF	CITATIONS
19	Energetic basis of colonial living in social insects. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 3634-3638.	3.3	123
20	Eusocial insects as superorganisms. <i>Communicative and Integrative Biology</i> , 2010, 3, 360-362.	0.6	35
21	The energetic basis of acoustic communication. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2010, 277, 1325-1331.	1.2	136
22	Predicting natural mortality rates of plants and animals. <i>Ecology Letters</i> , 2008, 11, 710-716.	3.0	137
23	Energetic constraints on an early developmental stage: a comparative view. <i>Biology Letters</i> , 2008, 4, 123-126.	1.0	11
24	Scaling of number, size, and metabolic rate of cells with body size in mammals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 4718-4723.	3.3	262
25	LINKING GLOBAL PATTERNS IN BIODIVERSITY TO EVOLUTIONARY DYNAMICS USING METABOLIC THEORY. <i>Ecology</i> , 2007, 88, 1890-1894.	1.5	66
26	Changes in body temperature influence the scaling of and aerobic scope in mammals. <i>Biology Letters</i> , 2007, 3, 100-103.	1.0	27
27	Effects of metabolic rate on protein evolution. <i>Biology Letters</i> , 2007, 3, 655-660.	1.0	48
28	The mechanistic basis of the metabolic theory of ecology. <i>Oikos</i> , 2007, 116, 1073-1077.	1.2	49
29	Dinosaur Fossils Predict Body Temperatures. <i>PLoS Biology</i> , 2006, 4, e248.	2.6	60
30	The metabolic basis of whole-organism RNA and phosphorus content. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 11923-11927.	3.3	151
31	The rate of DNA evolution: Effects of body size and temperature on the molecular clock. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 140-145.	3.3	441
32	RESPONSE TO FORUM COMMENTARY ON "TOWARD A METABOLIC THEORY OF ECOLOGY". <i>Ecology</i> , 2004, 85, 1818-1821.	1.5	47
33	TOWARD A METABOLIC THEORY OF ECOLOGY. <i>Ecology</i> , 2004, 85, 1771-1789.	1.5	5,745
34	Thermodynamic and metabolic effects on the scaling of production and population energy use. <i>Ecology Letters</i> , 2003, 6, 990-995.	3.0	215
35	How reliable is the biological time clock?. <i>Nature</i> , 2003, 424, 270-270.	13.7	5
36	Response to Comment on "Global Biodiversity, Biochemical Kinetics, and the Energetic-Equivalence Rule". <i>Science</i> , 2003, 299, 346c-346.	6.0	11

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37	Allometric scaling of maximum population density: a common rule for marine phytoplankton and terrestrial plants. <i>Ecology Letters</i> , 2002, 5, 611-613.	3.0	120
38	Effects of size and temperature on developmental time. <i>Nature</i> , 2002, 417, 70-73.	13.7	798