

# Graham K Taylor

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1576155/publications.pdf>

Version: 2024-02-01

25  
papers

1,634  
citations

623188

14  
h-index

580395

25  
g-index

37  
all docs

37  
docs citations

37  
times ranked

1449  
citing authors

#	ARTICLE	IF	CITATIONS
1	Flying and swimming animals cruise at a Strouhal number tuned for high power efficiency. <i>Nature</i> , 2003, 425, 707-711.	13.7	813
2	Sensory Systems and Flight Stability: What do Insects Measure and Why?. <i>Advances in Insect Physiology</i> , 2007, 34, 231-316.	1.1	235
3	Terminal attack trajectories of peregrine falcons are described by the proportional navigation guidance law of missiles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 13495-13500.	3.3	72
4	Wing tucks are a response to atmospheric turbulence in the soaring flight of the steppe eagle <i>Aquila nipalensis</i> . <i>Journal of the Royal Society Interface</i> , 2014, 11, 20140645.	1.5	46
5	Vision-based flight control in the hawkmoth <i>Hyles lineata</i> . <i>Journal of the Royal Society Interface</i> , 2014, 11, 20130921.	1.5	43
6	An Algorithmic Approach to Natural Behavior. <i>Current Biology</i> , 2020, 30, R663-R675.	1.8	35
7	Hawks steer attacks using a guidance system tuned for close pursuit of erratically manoeuvring targets. <i>Nature Communications</i> , 2019, 10, 2462.	5.8	34
8	Absence of "selfish herd" dynamics in bird flocks under threat. <i>Current Biology</i> , 2021, 31, 3192-3198.e7.	1.8	34
9	Soaring energetics and glide performance in a moving atmosphere. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2016, 371, 20150398.	1.8	33
10	What underlies waves of agitation in starling flocks. <i>Behavioral Ecology and Sociobiology</i> , 2015, 69, 755-764.	0.6	31
11	Birds invest wingbeats to keep a steady head and reap the ultimate benefits of flying together. <i>PLoS Biology</i> , 2019, 17, e3000299.	2.6	27
12	Physics-based simulations of aerial attacks by peregrine falcons reveal that stooping at high speed maximizes catch success against agile prey. <i>PLoS Computational Biology</i> , 2018, 14, e1006044.	1.5	23
13	Self-organization of collective escape in pigeon flocks. <i>PLoS Computational Biology</i> , 2022, 18, e1009772.	1.5	23
14	Optimization of dynamic soaring in a flap-gliding seabird affects its large-scale distribution at sea. <i>Science Advances</i> , 2022, 8, .	4.7	18
15	Emergence of splits and collective turns in pigeon flocks under predation. <i>Royal Society Open Science</i> , 2022, 9, 211898.	1.1	17
16	Attack behaviour in naive gyrfalcons is modelled by the same guidance law as in peregrine falcons, but at a lower guidance gain. <i>Journal of Experimental Biology</i> , 2021, 224, .	0.8	12
17	Trade-offs: selection, phylogeny, and constraint. , 2014, , 123-136.		12
18	Optimization of avian perching manoeuvres. <i>Nature</i> , 2022, 607, 91-96.	13.7	12

#	ARTICLE	IF	CITATIONS
19	Simple scaling law predicts peak efficiency in oscillatory propulsion. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 8063-8065.	3.3	11
20	Head movements quadruple the range of speeds encoded by the insect motion vision system in hawkmoths. Proceedings of the Royal Society B: Biological Sciences, 2017, 284, 20171622.	1.2	10
21	Aerial attack strategies of hawks hunting bats, and the adaptive benefits of swarming. Behavioral Ecology, 2021, 32, 464-476.	1.0	10
22	A semi-empirical model of the aerodynamics of manoeuvring insect flight. Journal of the Royal Society Interface, 2021, 18, 20210103.	1.5	9
23	Sexual size dimorphism, prey morphology and catch success in relation to flight mechanics in the peregrine falcon: a simulation study. Journal of Avian Biology, 2019, 50, .	0.6	6
24	Motor output and control input in flapping flight: a compact model of the deforming wing kinematics of manoeuvring hoverflies. Journal of the Royal Society Interface, 2019, 16, 20190435.	1.5	4
25	Slit sense organ distribution on the legs of two species of orb-weaving spider (Araneae: Araneidae). Arthropod Structure and Development, 2022, 67, 101140.	0.8	1