Graham K Taylor

List of Publications by Year
in descending order

25	1,634	623188	580395
papers	citations	14 h-index	25 g-index

37	37	37	1449
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Self-organization of collective escape in pigeon flocks. PLoS Computational Biology, 2022, 18, e1009772.	1.5	23
2	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
3	Emergence of splits and collective turns in pigeon flocks under predation. Royal Society Open Science, 2022, 9, 211898.	1.1	17
4	Optimization of dynamic soaring in a flap-gliding seabird affects its large-scale distribution at sea. Science Advances, 2022, 8, .	4.7	18
5	Optimization of avian perching manoeuvres. Nature, 2022, 607, 91-96.	13.7	12
6	Attack behaviour in naive gyrfalcons is modelled by the same guidance law as in peregrine falcons, but at a lower guidance gain. Journal of Experimental Biology, 2021, 224, .	0.8	12
7	Aerial attack strategies of hawks hunting bats, and the adaptive benefits of swarming. Behavioral Ecology, 2021, 32, 464-476.	1.0	10
8	A semi-empirical model of the aerodynamics of manoeuvring insect flight. Journal of the Royal Society Interface, 2021, 18, 20210103.	1.5	9
9	Absence of â€œselfish herdâ€•dynamics in bird flocks under threat. Current Biology, 2021, 31, 3192-3198.e7.	1.8	34
10	An Algorithmic Approach to Natural Behavior. Current Biology, 2020, 30, R663-R675.	1.8	35
11	Birds invest wingbeats to keep a steady head and reap the ultimate benefits of flying together. PLoS Biology, 2019, 17, e3000299.	2.6	27
12	Hawks steer attacks using a guidance system tuned for close pursuit of erratically manoeuvringÂtargets. Nature Communications, 2019, 10, 2462.	5.8	34
13	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
14	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
15	Physics-based simulations of aerial attacks by peregrine falcons reveal that stooping at high speed maximizes catch success against agile prey. PLoS Computational Biology, 2018, 14, e1006044.	1.5	23
16	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
17	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
18	Terminal attack trajectories of peregrine falcons are described by the proportional navigation guidance law of missiles. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 13495-13500.	3.3	72

#	Article	IF	Citations
19	Soaring energetics and glide performance in a moving atmosphere. Philosophical Transactions of the Royal Society B: Biological Sciences, 2016, 371, 20150398.	1.8	33
20	What underlies waves of agitation in starling flocks. Behavioral Ecology and Sociobiology, 2015, 69, 755-764.	0.6	31
21	Wing tucks are a response to atmospheric turbulence in the soaring flight of the steppe eagle Aquila nipalensis. Journal of the Royal Society Interface, 2014, 11, 20140645.	1.5	46
22	Vision-based flight control in the hawkmothHyles lineata. Journal of the Royal Society Interface, 2014, 11, 20130921.	1.5	43
23	Trade-offs: selection, phylogeny, and constraint. , 2014, , 123-136.		12
24	Sensory Systems and Flight Stability: What do Insects Measure and Why?. Advances in Insect Physiology, 2007, 34, 231-316.	1.1	235
25	Flying and swimming animals cruise at a Strouhal number tuned for high power efficiency. Nature, 2003, 425, 707-711.	13.7	813