## Andrew D Straw

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	The olfactory gating of visual preferences to human skin and visible spectra in mosquitoes. Nature Communications, 2022, 13, 555.	12.8	29
2	Diurnal and nocturnal mosquitoes escape looming threats using distinct flight strategies. Current Biology, 2022, 32, 1232-1246.e5.	3.9	11
3	Review of Methods for Animal Videography Using Camera Systems that Automatically Move to Follow the Animal. Integrative and Comparative Biology, 2021, 61, 917-925.	2.0	6
4	A neurodevelopmental origin of behavioral individuality in the <i>Drosophila</i> visual system. Science, 2020, 367, 1112-1119.	12.6	97
5	Morphology, muscle capacity, skill, and maneuvering ability in hummingbirds. Science, 2018, 359, 653-657.	12.6	56
6	Virtual reality for freely moving animals. Nature Methods, 2017, 14, 995-1002.	19.0	213
7	Mechanical Constraints on Flight at High Elevation Decrease Maneuvering Performance of Hummingbirds. Current Biology, 2016, 26, 3368-3374.	3.9	12
8	Automatic Segmentation of Drosophila Neural Compartments Using GAL4 Expression Data Reveals Novel Visual Pathways. Current Biology, 2016, 26, 1943-1954.	3.9	76
9	Burst muscle performance predicts the speed, acceleration, and turning performance of Anna's hummingbirds. ELife, 2015, 4, e11159.	6.0	29
10	Flying <i>Drosophila</i> stabilize their vision-based velocity controller by sensing wind with their antennae. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E1182-91.	7.1	130
11	Asymmetric Processing of Visual Motion for Simultaneous Object and Background Responses. Current Biology, 2014, 24, 2913-2919.	3.9	39
12	Reverse Engineering Animal Vision with Virtual Reality and Genetics. Computer, 2014, 47, 38-45.	1.1	22
13	FlyMAD: rapid thermogenetic control of neuronal activity in freely walking Drosophila. Nature Methods, 2014, 11, 756-762.	19.0	128
14	Automated image-based tracking and its application in ecology. Trends in Ecology and Evolution, 2014, 29, 417-428.	8.7	407
15	Circadian and Circalunar Clock Interactions in a Marine Annelid. Cell Reports, 2013, 5, 99-113.	6.4	128
16	Discriminating External and Internal Causes for Heading Changes in Freely Flying Drosophila. PLoS Computational Biology, 2013, 9, e1002891.	3.2	52
17	Multi-camera real-time three-dimensional tracking of multiple flying animals. Journal of the Royal Society Interface, 2011, 8, 395-409.	3.4	178
18	Active and Passive Antennal Movements during Visually Guided Steering in Flying <i>Drosophila</i> . Journal of Neuroscience, 2011, 31, 6900-6914.	3.6	70

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19	Visual Control of Altitude in Flying Drosophila. Current Biology, 2010, 20, 1550-1556.	3.9	83
20	Active flight increases the gain of visual motion processing in Drosophila. Nature Neuroscience, 2010, 13, 393-399.	14.8	391
21	Object preference by walking fruit flies, <i>Drosophila melanogaster</i> , is mediated by vision and graviperception. Journal of Experimental Biology, 2010, 213, 2494-2506.	1.7	62
22	A bio-plausible design for visual pose stabilization. , 2010, , .		12
23	Motion blur applied to eliminate artifacts in apparent motion displays. Journal of Vision, 2010, 3, 782-782.	0.3	4
24	A real-time helicopter testbed for insect-inspired visual flight control. , 2009, , .		7
25	Visual control of flight speed in <i>Drosophila melanogaster</i> . Journal of Experimental Biology, 2009, 212, 1120-1130.	1.7	140
26	Motmot, an open-source toolkit for realtime video acquisition and analysis. Source Code for Biology and Medicine, 2009, 4, 5.	1.7	65
27	TrackFly: Virtual reality for a behavioral system analysis in free-flying fruit flies. Journal of Neuroscience Methods, 2008, 171, 110-117.	2.5	109
28	A Simple Vision-Based Algorithm for Decision Making in Flying Drosophila. Current Biology, 2008, 18, 464-470.	3.9	201
29	Integrative Model of Drosophila Flight. AIAA Journal, 2008, 46, 2150-2164.	2.6	100
30	Contrast sensitivity of insect motion detectors to natural images. Journal of Vision, 2008, 8, 32.	0.3	57
31	Vision Egg: An Open-Source Library for Realtime Visual Stimulus Generation. Frontiers in Neuroinformatics, 2008, 2, 4.	2.5	221
32	Biologically Inspired Feedback Design for Drosophila Flight. Proceedings of the American Control Conference, 2007, , .	0.0	14
33	An Integrative Model of Insect Flight Control (Invited). , 2006, , .		60
34	A`bright zone' in male hoverfly (Eristalis tenax) eyes and associated faster motion detection and increased contrast sensitivity. Journal of Experimental Biology, 2006, 209, 4339-4354.	1.7	122
35	Effects of compressive nonlinearity on insect-based motion detection. , 2005, , .		0
36	Effect of spatial sampling on pattern noise in insect-based motion detection. , 2005, , .		7

Effect of spatial sampling on pattern noise in insect-based motion detection. , 2005, , . 36

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37	Velocity constancy and models for wide-field visual motion detection in insects. Biological Cybernetics, 2005, 93, 275-287.	1.3	43
38	Context-dependent stimulus presentation to freely moving animals in 3D. Journal of Neuroscience Methods, 2004, 135, 149-157.	2.5	31
39	Implementation of visual motion detection with contrast adaptation. , 2001, , .		9