Kristin Branson

List of Publications by Year
in descending order

22 papers	3,992 citations	471509 17 h-index	713466 21 g-index
23 all docs	23 docs citations	23 times ranked	4973 citing authors

#	Article	IF	Citations
1	High-throughput ethomics in large groups of Drosophila. Nature Methods, 2009, 6, 451-457.	19.0	690
2	JAABA: interactive machine learning for automatic annotation of animal behavior. Nature Methods, 2013, 10, 64-67.	19.0	491
3	Automated image-based tracking and its application in ecology. Trends in Ecology and Evolution, 2014, 29, 417-428.	8.7	407
4	In Toto Imaging and Reconstruction of Post-Implantation Mouse Development at the Single-Cell Level. Cell, 2018, 175, 859-876.e33.	28.9	348
5	Computational Neuroethology: A Call to Action. Neuron, 2019, 104, 11-24.	8.1	271
6	Fast, accurate reconstruction of cell lineages from large-scale fluorescence microscopy data. Nature Methods, 2014, 11, 951-958.	19.0	253
7	Behavioral Variability through Stochastic Choice and Its Gating by Anterior Cingulate Cortex. Cell, 2014, 159, 21-32.	28.9	226
8	Cortex commands the performance of skilled movement. ELife, 2015, 4, e10774.	6.0	207
9	Mapping the Neural Substrates of Behavior. Cell, 2017, 170, 393-406.e28.	28.9	196
10	Cortical pattern generation during dexterous movement is input-driven. Nature, 2020, 577, 386-391.	27.8	196
11	Multi-camera real-time three-dimensional tracking of multiple flying animals. Journal of the Royal Society Interface, 2011, 8, 395-409.	3.4	178
12	Computational Analysis of Behavior. Annual Review of Neuroscience, 2016, 39, 217-236.	10.7	161
13	Machine vision methods for analyzing social interactions. Journal of Experimental Biology, 2017, 220, 25-34.	1.7	125
14	State-dependent decoupling of sensory and motor circuits underlies behavioral flexibility in Drosophila. Nature Neuroscience, 2019, 22, 1132-1139.	14.8	72
15	Moonwalker Descending Neurons Mediate Visually Evoked Retreat in Drosophila. Current Biology, 2017, 27, 766-771.	3.9	62
16	A Simple Strategy for Detecting Moving Objects during Locomotion Revealed by Animal-Robot Interactions. Current Biology, 2012, 22, 1344-1350.	3.9	49
17	An automatic behavior recognition system classifies animal behaviors using movements and their temporal context. Journal of Neuroscience Methods, 2019, 326, 108352.	2.5	24
18	Understanding classifier errors by examining influential neighbors. , 2015, , .		13

#	Article	IF	Citations
19	Distinguishing seemingly indistinguishable animals with computer vision. Nature Methods, 2014, 11, 721-722.	19.0	12
20	A deep (learning) dive into a cell. Nature Methods, 2018, 15, 253-254.	19.0	4
21	Automated Video Monitoring of Unmarked and Marked Honey Bees at the Hive Entrance. Frontiers in Computer Science, 2022, 3, .	2.8	3
22	Imaging the Neural Basis of Locomotion. Cell, 2015, 163, 541-542.	28.9	2