

Vivek Jayaraman

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8943252/publications.pdf>

Version: 2024-02-01

28
papers

16,103
citations

218677

26
h-index

526287

27
g-index

44
all docs

44
docs citations

44
times ranked

14996
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrasensitive fluorescent proteins for imaging neuronal activity. Nature, 2013, 499, 295-300.	27.8	5,490
2	Independent optical excitation of distinct neural populations. Nature Methods, 2014, 11, 338-346.	19.0	1,879
3	Imaging neural activity in worms, flies and mice with improved GCaMP calcium indicators. Nature Methods, 2009, 6, 875-881.	19.0	1,759
4	Optimization of a GCaMP Calcium Indicator for Neural Activity Imaging. Journal of Neuroscience, 2012, 32, 13819-13840.	3.6	1,099
5	High-performance calcium sensors for imaging activity in neuronal populations and microcompartments. Nature Methods, 2019, 16, 649-657.	19.0	843
6	Sensitive red protein calcium indicators for imaging neural activity. ELife, 2016, 5, .	6.0	813
7	Neural dynamics for landmark orientation and angular path integration. Nature, 2015, 521, 186-191.	27.8	607
8	A connectome and analysis of the adult Drosophila central brain. ELife, 2020, 9, .	6.0	596
9	Labeling of active neural circuits in vivo with designed calcium integrators. Science, 2015, 347, 755-760.	12.6	377
10	Two-photon calcium imaging from head-fixed Drosophila during optomotor walking behavior. Nature Methods, 2010, 7, 535-540.	19.0	315
11	Ring attractor dynamics in the <i>Drosophila</i> central brain. Science, 2017, 356, 849-853.	12.6	305
12	Feature detection and orientation tuning in the Drosophila central complex. Nature, 2013, 503, 262-266.	27.8	284
13	Angular velocity integration in a fly heading circuit. ELife, 2017, 6, .	6.0	252
14	A connectome of the Drosophila central complex reveals network motifs suitable for flexible navigation and context-dependent action selection. ELife, 2021, 10, .	6.0	168
15	Generation of stable heading representations in diverse visual scenes. Nature, 2019, 576, 126-131.	27.8	127
16	Neural signatures of dynamic stimulus selection in Drosophila. Nature Neuroscience, 2017, 20, 1104-1113.	14.8	113
17	Building a functional connectome of the Drosophila central complex. ELife, 2018, 7, .	6.0	112
18	Dynamical feature extraction at the sensory periphery guides chemotaxis. ELife, 2015, 4, .	6.0	107

#	ARTICLE	IF	CITATIONS
19	The insect central complex. Current Biology, 2016, 26, R453-R457.	3.9	95
20	The Neuroanatomical Ultrastructure and Function of a Biological Ring Attractor. Neuron, 2020, 108, 145-163.e10.	8.1	92
21	Mechanisms Underlying the Neural Computation of Head Direction. Annual Review of Neuroscience, 2020, 43, 31-54.	10.7	76
22	Central neural circuitry mediating courtship song perception in male Drosophila. ELife, 2015, 4, .	6.0	72
23	A Neuron-Based Screening Platform for Optimizing Genetically-Encoded Calcium Indicators. PLoS ONE, 2013, 8, e77728.	2.5	66
24	Studying sensorimotor integration in insects. Current Opinion in Neurobiology, 2011, 21, 527-534.	4.2	49
25	Visually Guided Behavior and Optogenetically Induced Learning in Head-Fixed Flies Exploring a Virtual Landscape. Current Biology, 2019, 29, 1647-1659.e8.	3.9	48
26	Studying small brains to understand the building blocks of cognition. Current Opinion in Neurobiology, 2016, 37, 59-65.	4.2	37
27	Visual Neuroscience: A Moving Story of Neuromodulation. Current Biology, 2012, 22, R1057-R1059.	3.9	1
28	Busted! A Dope Ring with Activity Clocked at Dawn and Dusk. Neuron, 2019, 102, 713-715.	8.1	0