Vivek Jayaraman

List of Publications by Year
in descending order

28	16,103	249298 26	591227 27
papers	citations	h-index	g-index

44	44	44	16800
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A connectome of the Drosophila central complex reveals network motifs suitable for flexible navigation and context-dependent action selection. ELife, 2021, 10, .	2.8	168
2	Mechanisms Underlying the Neural Computation of Head Direction. Annual Review of Neuroscience, 2020, 43, 31-54.	5.0	76
3	The Neuroanatomical Ultrastructure and Function of a Biological Ring Attractor. Neuron, 2020, 108, 145-163.e10.	3.8	92
4	A connectome and analysis of the adult Drosophila central brain. ELife, 2020, 9, .	2.8	596
5	High-performance calcium sensors for imaging activity in neuronal populations and microcompartments. Nature Methods, 2019, 16, 649-657.	9.0	843
6	Busted! A Dope Ring with Activity Clocked at Dawn and Dusk. Neuron, 2019, 102, 713-715.	3.8	0
7	Visually Guided Behavior and Optogenetically Induced Learning in Head-Fixed Flies Exploring a Virtual Landscape. Current Biology, 2019, 29, 1647-1659.e8.	1.8	48
8	Generation of stable heading representations in diverse visual scenes. Nature, 2019, 576, 126-131.	13.7	127
9	Building a functional connectome of the Drosophila central complex. ELife, 2018, 7, .	2.8	112
10	Ring attractor dynamics in the Drosophila central brain. Science, 2017, 356, 849-853.	6.0	305
11	Neural signatures of dynamic stimulus selection in Drosophila. Nature Neuroscience, 2017, 20, 1104-1113.	7.1	113
12	Angular velocity integration in a fly heading circuit. ELife, 2017, 6, .	2.8	252
13	Sensitive red protein calcium indicators for imaging neural activity. ELife, 2016, 5, .	2.8	813
14	The insect central complex. Current Biology, 2016, 26, R453-R457.	1.8	95
15	Studying small brains to understand the building blocks of cognition. Current Opinion in Neurobiology, 2016, 37, 59-65.	2.0	37
16	Dynamical feature extraction at the sensory periphery guides chemotaxis. ELife, 2015, 4, .	2.8	107
17	Labeling of active neural circuits in vivo with designed calcium integrators. Science, 2015, 347, 755-760.	6.0	377
18	Neural dynamics for landmark orientation and angular path integration. Nature, 2015, 521, 186-191.	13.7	607

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19	Central neural circuitry mediating courtship song perception in male Drosophila. ELife, 2015, 4, .	2.8	72
20	Independent optical excitation of distinct neural populations. Nature Methods, 2014, 11, 338-346.	9.0	1,879
21	Ultrasensitive fluorescent proteins for imaging neuronal activity. Nature, 2013, 499, 295-300.	13.7	5,490
22	Feature detection and orientation tuning in the Drosophila central complex. Nature, 2013, 503, 262-266.	13.7	284
23	A Neuron-Based Screening Platform for Optimizing Genetically-Encoded Calcium Indicators. PLoS ONE, 2013, 8, e77728.	1.1	66
24	Optimization of a GCaMP Calcium Indicator for Neural Activity Imaging. Journal of Neuroscience, 2012, 32, 13819-13840.	1.7	1,099
25	Visual Neuroscience: A Moving Story of Neuromodulation. Current Biology, 2012, 22, R1057-R1059.	1.8	1
26	Studying sensorimotor integration in insects. Current Opinion in Neurobiology, 2011, 21, 527-534.	2.0	49
27	Two-photon calcium imaging from head-fixed Drosophila during optomotor walking behavior. Nature Methods, 2010, 7, 535-540.	9.0	315
28	Imaging neural activity in worms, flies and mice with improved GCaMP calcium indicators. Nature Methods, 2009, 6, 875-881.	9.0	1,759