

# 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

218381

26  
h-index

525886

27  
g-index

44  
all docs

44  
docs citations

44  
times ranked

14996  
citing authors

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

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