

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 | Ultrasensitive fluorescent proteins for imaging neuronal activity. <i>Nature</i> , 2013, 499, 295-300. | 13.7 | 5,490 |
| 2 | Independent optical excitation of distinct neural populations. <i>Nature Methods</i> , 2014, 11, 338-346. | 9.0 | 1,879 |
| 3 | 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 |
| 4 | Optimization of a GCaMP Calcium Indicator for Neural Activity Imaging. <i>Journal of Neuroscience</i> , 2012, 32, 13819-13840. | 1.7 | 1,099 |
| 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 | Sensitive red protein calcium indicators for imaging neural activity. <i>ELife</i> , 2016, 5, . | 2.8 | 813 |
| 7 | Neural dynamics for landmark orientation and angular path integration. <i>Nature</i> , 2015, 521, 186-191. | 13.7 | 607 |
| 8 | A connectome and analysis of the adult <i>Drosophila</i> central brain. <i>ELife</i> , 2020, 9, . | 2.8 | 596 |
| 9 | Labeling of active neural circuits in vivo with designed calcium integrators. <i>Science</i> , 2015, 347, 755-760. | 6.0 | 377 |
| 10 | 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 |
| 11 | Ring attractor dynamics in the <i>Drosophila</i> central brain. <i>Science</i> , 2017, 356, 849-853. | 6.0 | 305 |
| 12 | Feature detection and orientation tuning in the <i>Drosophila</i> central complex. <i>Nature</i> , 2013, 503, 262-266. | 13.7 | 284 |
| 13 | Angular velocity integration in a fly heading circuit. <i>ELife</i> , 2017, 6, . | 2.8 | 252 |
| 14 | 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 |
| 15 | Generation of stable heading representations in diverse visual scenes. <i>Nature</i> , 2019, 576, 126-131. | 13.7 | 127 |
| 16 | Neural signatures of dynamic stimulus selection in <i>Drosophila</i> . <i>Nature Neuroscience</i> , 2017, 20, 1104-1113. | 7.1 | 113 |
| 17 | Building a functional connectome of the <i>Drosophila</i> central complex. <i>ELife</i> , 2018, 7, . | 2.8 | 112 |
| 18 | Dynamical feature extraction at the sensory periphery guides chemotaxis. <i>ELife</i> , 2015, 4, . | 2.8 | 107 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | The insect central complex. <i>Current Biology</i> , 2016, 26, R453-R457. | 1.8 | 95 |
| 20 | The Neuroanatomical Ultrastructure and Function of a Biological Ring Attractor. <i>Neuron</i> , 2020, 108, 145-163.e10. | 3.8 | 92 |
| 21 | Mechanisms Underlying the Neural Computation of Head Direction. <i>Annual Review of Neuroscience</i> , 2020, 43, 31-54. | 5.0 | 76 |
| 22 | Central neural circuitry mediating courtship song perception in male <i>Drosophila</i> . <i>ELife</i> , 2015, 4, . | 2.8 | 72 |
| 23 | A Neuron-Based Screening Platform for Optimizing Genetically-Encoded Calcium Indicators. <i>PLoS ONE</i> , 2013, 8, e77728. | 1.1 | 66 |
| 24 | Studying sensorimotor integration in insects. <i>Current Opinion in Neurobiology</i> , 2011, 21, 527-534. | 2.0 | 49 |
| 25 | 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 |
| 26 | Studying small brains to understand the building blocks of cognition. <i>Current Opinion in Neurobiology</i> , 2016, 37, 59-65. | 2.0 | 37 |
| 27 | Visual Neuroscience: A Moving Story of Neuromodulation. <i>Current Biology</i> , 2012, 22, R1057-R1059. | 1.8 | 1 |
| 28 | Busted! A Dope Ring with Activity Clocked at Dawn and Dusk. <i>Neuron</i> , 2019, 102, 713-715. | 3.8 | 0 |