

List of Publications by Year in descending order

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65
papers

4,181
citations

147566

31
h-index

128067

60
g-index

73
all docs

73
docs citations

73
times ranked

4050
citing authors

#	ARTICLE	IF	CITATIONS
1	Light-Induced Activation of Distinct Modulatory Neurons Triggers Appetitive or Aversive Learning in <i>Drosophila</i> Larvae. <i>Current Biology</i> , 2006, 16, 1741-1747.	1.8	557
2	The neural basis of <i>Drosophila</i> gravity-sensing and hearing. <i>Nature</i> , 2009, 458, 165-171.	13.7	347
3	Punishment Prediction by Dopaminergic Neurons in <i>Drosophila</i> . <i>Current Biology</i> , 2005, 15, 1953-1960.	1.8	308
4	Restoring polyamines protects from age-induced memory impairment in an autophagy-dependent manner. <i>Nature Neuroscience</i> , 2013, 16, 1453-1460.	7.1	283
5	Genetically Expressed Cameleon in <i>Drosophila melanogaster</i> Is Used to Visualize Olfactory Information in Projection Neurons. <i>Current Biology</i> , 2002, 12, 1877-1884.	1.8	218
6	Channelrhodopsin-2â€“XXL, a powerful optogenetic tool for low-light applications. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 13972-13977.	3.3	182
7	A Single Dopamine Pathway Underlies Progressive Locomotor Deficits in a <i>Drosophila</i> Model of Parkinson Disease. <i>Cell Reports</i> , 2013, 5, 952-960.	2.9	128
8	Light Activation of an Innate Olfactory Avoidance Response in <i>Drosophila</i> . <i>Current Biology</i> , 2007, 17, 905-908.	1.8	127
9	Olfaction and olfactory learning in <i>Drosophila</i> : recent progress. <i>Current Opinion in Neurobiology</i> , 2007, 17, 720-726.	2.0	112
10	Pharmacological dissociation between the reinforcing, sensitizing, and response-releasing functions of reward in honeybee classical conditioning. <i>Behavioral Neuroscience</i> , 1999, 113, 744-754.	0.6	109
11	Reversible Downregulation of Protein Kinase A during Olfactory Learning Using Antisense Technique Impairs Long-Term Memory Formation in the Honeybee, <i>Apis mellifera</i> . <i>Journal of Neuroscience</i> , 1999, 19, 10125-10134.	1.7	101
12	Are dendrites in <i>Drosophila</i> homologous to vertebrate dendrites?. <i>Developmental Biology</i> , 2005, 288, 126-138.	0.9	87
13	Presynapses in Kenyon Cell Dendrites in the Mushroom Body Calyx of <i>Drosophila</i> . <i>Journal of Neuroscience</i> , 2011, 31, 9696-9707.	1.7	83
14	Steroid-induced microRNA <i>let-7</i> acts as a spatio-temporal code for neuronal cell fate in the developing <i>Drosophila</i> brain. <i>EMBO Journal</i> , 2012, 31, 4511-4523.	3.5	82
15	Spermidine Suppresses Age-Associated Memory Impairment by Preventing Adverse Increase of Presynaptic Active Zone Size and Release. <i>PLoS Biology</i> , 2016, 14, e1002563.	2.6	82
16	The development of motor coordination in <i>Drosophila</i> embryos. <i>Development (Cambridge)</i> , 2008, 135, 3707-3717.	1.2	79
17	Identified Serotonin-Releasing Neurons Induce Behavioral Quiescence and Suppress Mating in <i>Drosophila</i> . <i>Journal of Neuroscience</i> , 2015, 35, 12792-12812.	1.7	79
18	SIFamide Translates Hunger Signals into Appetitive and Feeding Behavior in <i>Drosophila</i> . <i>Cell Reports</i> , 2017, 20, 464-478.	2.9	78

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19	Salt Processing in Larval <i>Drosophila</i> : Choice, Feeding, and Learning Shift from Appetitive to Aversive in a Concentration-Dependent Way. <i>Chemical Senses</i> , 2008, 33, 685-692.	1.1	68
20	Optogenetically induced olfactory stimulation in <i>Drosophila</i> larvae reveals the neuronal basis of odor-aversion behavior. <i>Frontiers in Behavioral Neuroscience</i> , 2010, 4, 27.	1.0	66
21	Localization of the Contacts Between Kenyon Cells and Aminergic Neurons in the <i>Drosophila melanogaster</i> Brain Using SplitGFP Reconstitution. <i>Journal of Comparative Neurology</i> , 2013, 521, 3992-4026.	0.9	64
22	Aralar Sequesters GABA into Hyperactive Mitochondria, Causing Social Behavior Deficits. <i>Cell</i> , 2020, 180, 1178-1197.e20.	13.5	62
23	Optical Dissection of Experience-Dependent Pre- and Postsynaptic Plasticity in the <i>Drosophila</i> Brain. <i>Cell Reports</i> , 2015, 10, 2083-2095.	2.9	61
24	Neural Control of Startle-Induced Locomotion by the Mushroom Bodies and Associated Neurons in <i>Drosophila</i> . <i>Frontiers in Systems Neuroscience</i> , 2018, 12, 6.	1.2	55
25	Optogenetic Approaches in Neuroscience. <i>Current Biology</i> , 2010, 20, R897-R903.	1.8	48
26	Transgenic flies expressing the fluorescence calcium sensor cameleon 2.1 under UAS control. <i>Genesis</i> , 2002, 34, 95-98.	0.8	47
27	In Vivo Calcium Imaging of Brain Activity in <i>Drosophila</i> by Transgenic Cameleon Expression. <i>Science Signaling</i> , 2003, 2003, pl6-pl6.	1.6	47
28	Synthetic retinal analogues modify the spectral and kinetic characteristics of microbial rhodopsin optogenetic tools. <i>Nature Communications</i> , 2014, 5, 5810.	5.8	42
29	Visualization of a Distributed Synaptic Memory Code in the <i>Drosophila</i> Brain. <i>Neuron</i> , 2020, 106, 963-976.e4.	3.8	40
30	Drep-2 is a novel synaptic protein important for learning and memory. <i>ELife</i> , 2014, 3, .	2.8	39
31	Differential Associative Training Enhances Olfactory Acuity in <i>Drosophila melanogaster</i> . <i>Journal of Neuroscience</i> , 2014, 34, 1819-1837.	1.7	37
32	Transgenic fruit-flies expressing a FRET-based sensor for in vivo imaging of cAMP dynamics. <i>Cellular Signalling</i> , 2007, 19, 2296-2303.	1.7	34
33	Developmental Coordination during Olfactory Circuit Remodeling in <i>Drosophila</i> . <i>Neuron</i> , 2018, 99, 1204-1215.e5.	3.8	33
34	Slow presynaptic mechanisms that mediate adaptation in the olfactory pathway of <i>Drosophila</i> . <i>ELife</i> , 2019, 8, .	2.8	33
35	A Combined Perceptual, Physico-Chemical, and Imaging Approach to "Odour-Distances"™ Suggests a Categorizing Function of the <i>Drosophila</i> Antennal Lobe. <i>PLoS ONE</i> , 2011, 6, e24300.	1.1	32
36	Optical calcium imaging in the nervous system of <i>Drosophila melanogaster</i> . <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2012, 1820, 1169-1178.	1.1	30

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37	Circuit reorganization in the <i>Drosophila</i> mushroom body calyx accompanies memory consolidation. <i>Cell Reports</i> , 2021, 34, 108871.	2.9	28
38	Optogenetics in <i>Drosophila</i> Neuroscience. <i>Methods in Molecular Biology</i> , 2016, 1408, 167-175.	0.4	28
39	Mushroom body miscellanea: transgenic <i>Drosophila</i> strains expressing anatomical and physiological sensor proteins in Kenyon cells. <i>Frontiers in Neural Circuits</i> , 2013, 7, 147.	1.4	27
40	Induction of aversive learning through thermogenetic activation of Kenyon cell ensembles in <i>Drosophila</i> . <i>Frontiers in Behavioral Neuroscience</i> , 2014, 8, 174.	1.0	24
41	Cloning of a catalytic subunit of cAMP-dependent protein kinase from the honeybee (<i>Apis mellifera</i>) and its localization in the brain. <i>Insect Molecular Biology</i> , 2001, 10, 173-181.	1.0	23
42	Calcium Imaging of Neural Activity in the Olfactory System of <i>Drosophila</i> . <i>NeuroMethods</i> , 2012, , 43-70.	0.2	21
43	Transcuticular optical imaging of stimulus-evoked neural activities in the <i>Drosophila</i> peripheral nervous system. <i>Nature Protocols</i> , 2010, 5, 1229-1235.	5.5	18
44	The Smell of Blue Light: A New Approach toward Understanding an Olfactory Neuronal Network. <i>Frontiers in Neuroscience</i> , 2011, 5, 72.	1.4	16
45	Unc13A and Unc13B contribute to the decoding of distinct sensory information in <i>Drosophila</i> . <i>Nature Communications</i> , 2021, 12, 1932.	5.8	16
46	Avoidance of Heat and Attraction to Optogenetically Induced Sugar Sensation as Operant Behavior in Adult <i>Drosophila</i> . <i>Journal of Neurogenetics</i> , 2012, 26, 298-305.	0.6	13
47	Procaine impairs learning and memory consolidation in the honeybee. <i>Brain Research</i> , 2003, 977, 124-127.	1.1	12
48	The anterior paired lateral neuron normalizes odour-evoked activity in the <i>Drosophila</i> mushroom body calyx. <i>eLife</i> , 2021, 10, .	2.8	11
49	Visualization of learning-induced synaptic plasticity in output neurons of the <i>Drosophila</i> mushroom body \hat{I}^3 -lobe. <i>Scientific Reports</i> , 2022, 12, .	1.6	10
50	Stochastic and Arbitrarily Generated Input Patterns to the Mushroom Bodies Can Serve as Conditioned Stimuli in <i>Drosophila</i> . <i>Frontiers in Physiology</i> , 2020, 11, 53.	1.3	9
51	Principal component analysis of odor coding at the level of third-order olfactory neurons in <i>Drosophila</i> . <i>Genes To Cells</i> , 2013, 18, 1070-1081.	0.5	8
52	In Vivo Optical Calcium Imaging of Learning-Induced Synaptic Plasticity in <i>Drosophila melanogaster</i> . <i>Journal of Visualized Experiments</i> , 2019, , .	0.2	6
53	Odor-Induced Multi-Level Inhibitory Maps in <i>Drosophila</i> . <i>ENeuro</i> , 2020, 7, ENEURO.0213-19.2019.	0.9	6
54	An information theoretic model of information processing in the <i>Drosophila</i> olfactory system: the role of inhibitory neurons for system efficiency. <i>Frontiers in Computational Neuroscience</i> , 2013, 7, 183.	1.2	5

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55	Neuroethology: A Neuronal Self-Defense Mechanism in Fly Larvae. <i>Current Biology</i> , 2008, 18, R116-R117.	1.8	4
56	Optical Calcium Imaging Using DNA-Encoded Fluorescence Sensors in Transgenic Fruit Flies, <i>Drosophila melanogaster</i> . <i>Methods in Molecular Biology</i> , 2014, 1071, 195-206.	0.4	4
57	Localization of a Memory Trace: Aversive Associative Olfactory Learning and Short-Term Memory in <i>Drosophila</i> . , 2017, , 475-482.		2
58	Optophysiological Approaches to Learning and Memory in <i>Drosophila melanogaster</i> . <i>Handbook of Behavioral Neuroscience</i> , 2013, , 59-68.	0.7	2
59	From Synapses to Behavior: Neurobiology in <i>Drosophila</i> . <i>Journal of Neurogenetics</i> , 2010, 24, 91-92.	0.6	1
60	Monitoring Neural Activity with Genetically Encoded Ca ²⁺ Indicators. , 2013, , 103-114.		1
61	Visualization of a Distributed Synaptic Memory Code in the <i>Drosophila</i> Brain. <i>SSRN Electronic Journal</i> , 0, , .	0.4	1
62	Optophysiological approaches to learning and memory in <i>Drosophila</i> . <i>Neuroscience Research</i> , 2009, 65, S16.	1.0	0
63	Heterogeneous connectivity can positively and negatively modulate the correlation between neural representations. <i>BMC Neuroscience</i> , 2013, 14, .	0.8	0
64	Visualization of Synapses and Synaptic Plasticity in the <i>Drosophila</i> Brain. , 2017, , 309-319.		0
65	Visualization of naive and learned odor representations using in vivo calcium imaging and immunohistochemical bouton mapping of single <i>Drosophila</i> mushroom body neurons. <i>STAR Protocols</i> , 2020, 1, 100210.	0.5	0