

Matthieu Louis

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

2,118
citations

361045

20
h-index

500791

28
g-index

46
all docs

46
docs citations

46
times ranked

1905
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular Titration and Ultrasensitivity in Regulatory Networks. <i>Journal of Molecular Biology</i> , 2008, 384, 1106-1119.	2.0	248
2	Chemotaxis Behavior Mediated by Single Larval Olfactory Neurons in <i>Drosophila</i> . <i>Current Biology</i> , 2005, 15, 2086-2096.	1.8	224
3	Active sampling and decision making in <i>Drosophila</i> chemotaxis. <i>Nature Communications</i> , 2011, 2, 441.	5.8	214
4	The wiring diagram of a glomerular olfactory system. <i>ELife</i> , 2016, 5, .	2.8	178
5	Bilateral olfactory sensory input enhances chemotaxis behavior. <i>Nature Neuroscience</i> , 2008, 11, 187-199.	7.1	167
6	A circuit supporting concentration-invariant odor perception in <i>Drosophila</i> . <i>Journal of Biology</i> , 2009, 8, 9.	2.7	126
7	Algorithms for Olfactory Search across Species. <i>Journal of Neuroscience</i> , 2018, 38, 9383-9389.	1.7	117
8	Dynamical feature extraction at the sensory periphery guides chemotaxis. <i>ELife</i> , 2015, 4, .	2.8	107
9	Active sensation during orientation behavior in the <i>Drosophila</i> larva: more sense than luck. <i>Current Opinion in Neurobiology</i> , 2012, 22, 208-215.	2.0	86
10	Automated Tracking of Animal Posture and Movement during Exploration and Sensory Orientation Behaviors. <i>PLoS ONE</i> , 2012, 7, e41642.	1.1	76
11	Multilevel control of run orientation in <i>Drosophila</i> larval chemotaxis. <i>Frontiers in Behavioral Neuroscience</i> , 2014, 8, 38.	1.0	70
12	Role of the Subesophageal Zone in Sensorimotor Control of Orientation in <i>Drosophila</i> Larva. <i>Current Biology</i> , 2015, 25, 1448-1460.	1.8	63
13	Sensorimotor pathway controlling stopping behavior during chemotaxis in the <i>Drosophila melanogaster</i> larva. <i>ELife</i> , 2018, 7, .	2.8	53
14	Mechanisms of odor-tracking: multiple sensors for enhanced perception and behavior. <i>Frontiers in Cellular Neuroscience</i> , 2010, 4, 6.	1.8	52
15	The O1mpiad: concordance of behavioural faculties of stage 1 and stage 3 <i>Drosophila</i> larvae. <i>Journal of Experimental Biology</i> , 2017, 220, 2452-2475.	0.8	48
16	The impact of odor reward memory on chemotaxis in larval <i>Drosophila</i> . <i>Learning and Memory</i> , 2015, 22, 267-277.	0.5	41
17	Species-specific modulation of food-search behavior by respiration and chemosensation in <i>Drosophila</i> larvae. <i>ELife</i> , 2017, 6, .	2.8	31
18	Pavlovian Conditioning of Larval <i>Drosophila</i> : An Illustrated, Multilingual, Hands-On Manual for Odor-Taste Associative Learning in Maggots. <i>Frontiers in Behavioral Neuroscience</i> , 2017, 11, 45.	1.0	28

#	ARTICLE	IF	CITATIONS
19	PiVR: An affordable and versatile closed-loop platform to study unrestrained sensorimotor behavior. PLoS Biology, 2020, 18, e3000712.	2.6	27
20	Adaptive Adjustment of the Generalization-Discrimination Balance in Larval <i>Drosophila</i> . Journal of Neurogenetics, 2010, 24, 168-175.	0.6	25
21	A Model of <i>Drosophila</i> Larva Chemotaxis. PLoS Computational Biology, 2015, 11, e1004606.	1.5	24
22	High-resolution Measurement of Odor-Driven Behavior in <i>Drosophila</i> Larvae. Journal of Visualized Experiments, 2008, , .	0.2	21
23	A Theoretical Model for the Regulation of <i>Sex-lethal</i> , a Gene That Controls Sex Determination and Dosage Compensation in <i>Drosophila melanogaster</i> . Genetics, 2003, 165, 1355-1384.	1.2	21
24	Behavioral Neuroscience: Crawling Is A No-Brainer for Fruit Fly Larvae. Current Biology, 2012, 22, R867-R869.	1.8	19
25	Collective Behavior: Social Digging in <i>Drosophila</i> Larvae. Current Biology, 2017, 27, R1010-R1012.	1.8	16
26	Mini-brain computations converting dynamic olfactory inputs into orientation behavior. Current Opinion in Neurobiology, 2020, 64, 1-9.	2.0	9
27	Disentangling the strings that organize behavior. ELife, 2018, 7, .	2.8	3
28	Manipulation of Neural Circuits in <i>Drosophila</i> Larvae. , 2017, , 171-189.		2
29	Order in Odors: A Power Law Structures the Encoding of Stimulus Identity and Intensity. Neuron, 2019, 101, 768-770.	3.8	1
30	Behavioral Analysis of Navigation Behaviors in the <i>Drosophila</i> Larva. Neuromethods, 2012, , 163-199.	0.2	0
31	Action selection: Neuropeptidergic gates of behavior. Current Biology, 2022, 32, R39-R42.	1.8	0