Gregory S X E Jefferis

List of Publications by Year
in descending order

62 papers	8,678 citations	94381 37 h-index	143943 57 g-index
90 all docs	90 docs citations	90 times ranked	5322 citing authors

#	Article	IF	Citations
1	A Complete Electron Microscopy Volume of the Brain of Adult Drosophila melanogaster. Cell, 2018, 174, 730-743.e22.	13.5	731
2	Comprehensive Maps of Drosophila Higher Olfactory Centers: Spatially Segregated Fruit and Pheromone Representation. Cell, 2007, 128, 1187-1203.	13.5	605
3	A connectome and analysis of the adult Drosophila central brain. ELife, 2020, 9, .	2.8	596
4	Complementary Function and Integrated Wiring of the Evolutionarily DistinctDrosophilaOlfactory Subsystems. Journal of Neuroscience, 2011, 31, 13357-13375.	1.7	464
5	Representation of the Glomerular Olfactory Map in the Drosophila Brain. Cell, 2002, 109, 243-255.	13.5	429
6	Target neuron prespecification in the olfactory map of Drosophila. Nature, 2001, 414, 204-208.	13.7	382
7	An olfactory receptor for food-derived odours promotes male courtship in Drosophila. Nature, 2011, 478, 236-240.	13.7	345
8	Cellular Organization of the Neural Circuit that Drives Drosophila Courtship Behavior. Current Biology, 2010, 20, 1602-1614.	1.8	325
9	Fly Cell Atlas: A single-nucleus transcriptomic atlas of the adult fruit fly. Science, 2022, 375, eabk2432.	6.0	295
10	Sexual Dimorphism in the Fly Brain. Current Biology, 2010, 20, 1589-1601.	1.8	270
11	Olfactory Information Processing in Drosophila. Current Biology, 2009, 19, R700-R713.	1.8	263
12	NBLAST: Rapid, Sensitive Comparison of Neuronal Structure and Construction of Neuron Family Databases. Neuron, 2016, 91, 293-311.	3.8	246
13	The connectome of the adult Drosophila mushroom body provides insights into function. ELife, 2020, 9, .	2.8	231
14	Developmental origin of wiring specificity in the olfactory system of Drosophila. Development (Cambridge), 2004, 131, 117-130.	1.2	211
15	A Bidirectional Circuit Switch Reroutes Pheromone Signals in Male and Female Brains. Cell, 2013, 155, 1610-1623.	13.5	190
16	Integration of Parallel Opposing Memories Underlies Memory Extinction. Cell, 2018, 175, 709-722.e15.	13.5	176
17	Quantitative measurements of alternating finger tapping in Parkinson's disease correlate with UPDRS motor disability and reveal the improvement in fine motor control from medication and deep brain stimulation. Movement Disorders, 2005, 20, 1286-1298.	2.2	166
18	From Lineage to Wiring Specificity. Cell, 2003, 112, 157-167.	13.5	150

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19	Glomerular Maps without Cellular Redundancy at Successive Levels of the Drosophila Larval Olfactory Circuit. Current Biology, 2005, 15, 982-992.	1.8	143
20	The natverse, a versatile toolbox for combining and analysing neuroanatomical data. ELife, 2020, 9, .	2.8	139
21	Olfactory receptor and circuit evolution promote host specialization. Nature, 2020, 579, 402-408.	13.7	131
22	The DIADEM Data Sets: Representative Light Microscopy Images of Neuronal Morphology to Advance Automation of Digital Reconstructions. Neuroinformatics, 2011, 9, 143-157.	1.5	128
23	Complete Connectomic Reconstruction of Olfactory Projection Neurons in the Fly Brain. Current Biology, 2020, 30, 3183-3199.e6.	1.8	128
24	Neurogenetic dissection of the Drosophila lateral horn reveals major outputs, diverse behavioural functions, and interactions with the mushroom body. ELife, 2019, 8, .	2.8	124
25	Development of neuronal connectivity in Drosophila antennal lobes and mushroom bodies. Current Opinion in Neurobiology, 2002, 12, 80-86.	2.0	96
26	Information flow, cell types and stereotypy in a full olfactory connectome. ELife, 2021, 10, .	2.8	92
27	A Neural Circuit Arbitrates between Persistence and Withdrawal in Hungry Drosophila. Neuron, 2019, 104, 544-558.e6.	3.8	83
28	Ultrafast tissue staining with chemical tags. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E3805-14.	3.3	81
29	Automatic detection of synaptic partners in a whole-brain Drosophilaâ€‰electron microscopy data set. Nature Methods, 2021, 18, 771-774.	9.0	81
30	Communication from Learned to Innate Olfactory Processing Centers Is Required for Memory Retrieval in Drosophila. Neuron, 2018, 100, 651-668.e8.	3.8	80
31	Functional and anatomical specificity in a higher olfactory centre. ELife, 2019, 8, .	2.8	77
32	Wiring specificity in the olfactory system. Seminars in Cell and Developmental Biology, 2006, 17, 50-65.	2.3	76
33	Automatic Segmentation of Drosophila Neural Compartments Using GAL4 Expression Data Reveals Novel Visual Pathways. Current Biology, 2016, 26, 1943-1954.	1.8	76
34	Connectomics Analysis Reveals First-, Second-, and Third-Order Thermosensory and Hygrosensory Neurons in the Adult Drosophila Brain. Current Biology, 2020, 30, 3167-3182.e4.	1.8	68
35	Neuronal cell types in the fly: single-cell anatomy meets single-cell genomics. Current Opinion in Neurobiology, 2019, 56, 125-134.	2.0	64
36	Pheromone processing in Drosophila. Current Opinion in Neurobiology, 2015, 34, 149-157.	2.0	60

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37	Chemoreceptor co-expression in Drosophila melanogaster olfactory neurons. ELife, 2022, 11, .	2.8	57
38	Input Connectivity Reveals Additional Heterogeneity of Dopaminergic Reinforcement in Drosophila. Current Biology, 2020, 30, 3200-3211.e8.	1.8	52
39	Sparse and combinatorial neuron labelling. Current Opinion in Neurobiology, 2012, 22, 101-110.	2.0	51
40	Facilitating Neuron-Specific Genetic Manipulations in Drosophila melanogaster Using a Split GAL4 Repressor. Genetics, 2017, 206, 775-784.	1.2	51
41	Olfactory Neurons and Brain Centers Directing Oviposition Decisions in Drosophila. Cell Reports, 2018, 24, 1667-1678.	2.9	48
42	Learning from connectomics on the fly. Current Opinion in Insect Science, 2017, 24, 96-105.	2.2	45
43	Genetically targeted 3D visualisation of Drosophila neurons under Electron Microscopy and X-Ray Microscopy using miniSOG. Scientific Reports, 2016, 6, 38863.	1.6	31
44	Circuits for integrating learned and innate valences in the insect brain. ELife, 2021, 10, .	2.8	29
45	A strategy for building neuroanatomy ontologies. Bioinformatics, 2012, 28, 1262-1269.	1.8	28
46	BAcTrace, a tool for retrograde tracing of neuronal circuits in Drosophila. Nature Methods, 2020, 17, 1254-1261.	9.0	27
47	Second-GenerationDrosophilaChemical Tags: Sensitivity, Versatility, and Speed. Genetics, 2017, 205, 1399-1408.	1.2	25
48	Optimization of fluorophores for chemical tagging and immunohistochemistry of Drosophila neurons. PLoS ONE, 2018, 13, e0200759.	1.1	21
49	Insect Olfaction: A Map of Smell in the Brain. Current Biology, 2005, 15, R668-R670.	1.8	17
50	A Mutual Information Approach to Automate Identification of Neuronal Clusters in Drosophila Brain Images. Frontiers in Neuroinformatics, 2012, 6, 21.	1.3	15
51	Neuroanatomy: Decoding the Fly Brain. Current Biology, 2011, 21, R19-R20.	1.8	9
52	Drosophila Olfaction: The End of Stereotypy?. Neuron, 2008, 59, 843-845.	3.8	8
53	Wiring Specificity: Axonâ€“Dendrite Matching Refines the Olfactory Map. Current Biology, 2006, 16, R373-R376.	1.8	6
54	Double Brainbow. Nature Methods, 2011, 8, 217-218.	9.0	6

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55	Mating-driven variability in olfactory local interneuron wiring. Science Advances, 2022, 8, eabm7723.	4.7	6
56	Development of Wiring Specificity of the Drosophila Olfactory System. Chemical Senses, 2005, 30, i94-i94.	1.1	5
57	NEUROSCIENCE: Calcium and CREST for Healthy Dendrites. Science, 2004, 303, 179-181.	6.0	4
58	Behavior: Why Male Flies Sing Different Songs. Current Biology, 2019, 29, R243-R245.	1.8	1
59	Insect Olfaction: A Map of Smell in the Brain. Current Biology, 2005, 15, 1886.	1.8	0
60	Olfactory Coding: When Smells Collide. Current Biology, 2006, 16, R1000-R1003.	1.8	0
61	Insect Olfaction: Telling Food from Foe. Current Biology, 2015, 25, R995-R998.	1.8	0
62	Neurodevelopment: Comparative connectomics and the study of circuit assembly. Current Biology, 2021, 31, R452-R454.	1.8	0