

# Jing W Wang

## List of Publications by Year in descending order

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51  
papers

6,115  
citations

172386

29  
h-index

206029

48  
g-index

54  
all docs

54  
docs citations

54  
times ranked

4624  
citing authors

#	ARTICLE	IF	CITATIONS
1	Two-Photon Calcium Imaging Reveals an Odor-Evoked Map of Activity in the Fly Brain. <i>Cell</i> , 2003, 112, 271-282.	13.5	752
2	Improved stability of <i>Drosophila</i> larval neuromuscular preparations in haemolymph-like physiological solutions. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 1994, 175, 179-191.	0.7	741
3	Spatial Representation of the Glomerular Map in the <i>Drosophila</i> Protocerebrum. <i>Cell</i> , 2002, 109, 229-241.	13.5	530
4	A single population of olfactory sensory neurons mediates an innate avoidance behaviour in <i>Drosophila</i> . <i>Nature</i> , 2004, 431, 854-859.	13.7	500
5	Presynaptic Facilitation by Neuropeptide Signaling Mediates Odor-Driven Food Search. <i>Cell</i> , 2011, 145, 133-144.	13.5	413
6	Select <i>Drosophila</i> glomeruli mediate innate olfactory attraction and aversion. <i>Nature</i> , 2009, 459, 218-223.	13.7	311
7	A Presynaptic Gain Control Mechanism Fine-Tunes Olfactory Behavior. <i>Neuron</i> , 2008, 59, 311-321.	3.8	309
8	The Neural Substrate of Spectral Preference in <i>Drosophila</i> . <i>Neuron</i> , 2008, 60, 328-342.	3.8	274
9	The Coding of Temperature in the <i>Drosophila</i> Brain. <i>Cell</i> , 2011, 144, 614-624.	13.5	236
10	Plasticity of local GABAergic interneurons drives olfactory habituation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, E646-54.	3.3	188
11	Mapping Neural Circuits with Activity-Dependent Nuclear Import of a Transcription Factor. <i>Journal of Neurogenetics</i> , 2012, 26, 89-102.	0.6	175
12	Presynaptic peptidergic modulation of olfactory receptor neurons in <i>Drosophila</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 13070-13075.	3.3	160
13	Starvation promotes concerted modulation of appetitive olfactory behavior via parallel neuromodulatory circuits. <i>ELife</i> , 2015, 4, .	2.8	152
14	Propagation of olfactory information in <i>Drosophila</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 11826-11831.	3.3	121
15	Calcium/calmodulin-dependent protein kinase II and potassium channel subunit eag similarly affect plasticity in <i>Drosophila</i> .. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1994, 91, 10044-10048.	3.3	120
16	Hormonal Modulation of Pheromone Detection Enhances Male Courtship Success. <i>Neuron</i> , 2016, 90, 1272-1285.	3.8	114
17	Concomitant alterations of physiological and developmental plasticity in <i>drosophila</i> CaM kinase II-inhibited synapses. <i>Neuron</i> , 1994, 13, 1373-1384.	3.8	101
18	Serotonin Modulates Olfactory Processing in the Antennal Lobe of <i>Drosophila</i> . <i>Journal of Neurogenetics</i> , 2009, 23, 366-377.	0.6	94

#	ARTICLE	IF	CITATIONS
19	Neuromodulation of Innate Behaviors in <i>Drosophila</i> . Annual Review of Neuroscience, 2017, 40, 327-348.	5.0	83
20	Morphometric Description of the Wandering Behavior in <i>Drosophila</i> Larvae: Aberrant Locomotion in Na <sup>+</sup> and K <sup>+</sup> Channel Mutants Revealed by Computer-Assisted Motion Analysis. Journal of Neurogenetics, 1997, 11, 231-254.	0.6	77
21	Molecular Genetic Analysis of Sexual Rejection: Roles of Octopamine and Its Receptor OAMB in <i>Drosophila</i> Courtship Conditioning. Journal of Neuroscience, 2012, 32, 14281-14287.	1.7	69
22	Social Context Enhances Hormonal Modulation of Pheromone Detection in <i>Drosophila</i> . Current Biology, 2019, 29, 3887-3898.e4.	1.8	47
23	Amplification of <i>Drosophila</i> Olfactory Responses by a DEG/ENaC Channel. Neuron, 2019, 104, 947-959.e5.	3.8	46
24	A nutrient-specific gut hormone arbitrates between courtship and feeding. Nature, 2022, 602, 632-638.	13.7	46
25	Modulation of neural circuits: how stimulus context shapes innate behavior in <i>Drosophila</i> . Current Opinion in Neurobiology, 2014, 29, 9-16.	2.0	42
26	Morphometric Description of the Wandering Behavior in <i>Drosophila</i> Larvae: A Phenotypic Analysis of K <sup>+</sup> Channel Mutants. Journal of Neurogenetics, 2002, 16, 45-63.	0.6	39
27	In vivo functional role of the <i>Drosophila</i> hyperkinetic beta subunit in gating and inactivation of Shaker K <sup>+</sup> channels. Biophysical Journal, 1996, 71, 3167-3176.	0.2	38
28	Model for Olfactory Discrimination and Learning in <i>Limax</i> Proocerebrum Incorporating Oscillatory Dynamics and Wave Propagation. Journal of Neurophysiology, 2001, 85, 1444-1452.	0.9	37
29	A Novel Leg-Shaking <i>Drosophila</i> Mutant Defective in a Voltage-Gated K <sup>+</sup> Current and Hypersensitive to Reactive Oxygen Species. Journal of Neuroscience, 2000, 20, 5958-5964.	1.7	34
30	Transcuticular imaging with cellular and subcellular resolution. Biomedical Optics Express, 2017, 8, 1277.	1.5	29
31	Presynaptic modulation of early olfactory processing in <i>Drosophila</i> . Developmental Neurobiology, 2012, 72, 87-99.	1.5	27
32	Model for Transition from Waves to Synchrony in the Olfactory Lobe of <i>Limax</i> . Journal of Computational Neuroscience, 2004, 17, 365-383.	0.6	25
33	Eliminating the scattering ambiguity in multifocal, multimodal, multiphoton imaging systems. Journal of Biophotonics, 2012, 5, 425-436.	1.1	22
34	Caspase Inhibition in Select Olfactory Neurons Restores Innate Attraction Behavior in Aged <i>Drosophila</i> . PLoS Genetics, 2014, 10, e1004437.	1.5	21
35	A versatile genetic tool for post-translational control of gene expression in <i>Drosophila melanogaster</i> . ELife, 2017, 6, .	2.8	21
36	Initiation and Propagation of Calcium-Dependent Action Potentials in a Coupled Network of Olfactory Interneurons. Journal of Neurophysiology, 2001, 85, 977-985.	0.9	18

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37	Lateralized memory storage and crossed inhibition during odor processing by Limax. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2000, 186, 269-278.	0.7	16
38	Genetic transformation of structural and functional circuitry rewires the <i>Drosophila</i> brain. <i>ELife</i> , 2014, 3, .	2.8	16
39	Electrophysiological Recording from <i>Drosophila</i> Trichoid Sensilla in Response to Odorants of Low Volatility. <i>Journal of Visualized Experiments</i> , 2017, , .	0.2	15
40	Hygrosensation: Feeling Wet and Cold. <i>Current Biology</i> , 2016, 26, R408-R410.	1.8	13
41	Reinforcement learning links spontaneous cortical dopamine impulses to reward. <i>Current Biology</i> , 2021, 31, 4111-4119.e4.	1.8	12
42	Modulation of the Frequency Response of <i>Shaker</i> Potassium Channels by the Quiver Peptide Suggesting a Novel Extracellular Interaction Mechanism. <i>Journal of Neurogenetics</i> , 2010, 24, 67-74.	0.6	10
43	A Single-fly Assay for Foraging Behavior in <i>Drosophila</i> . <i>Journal of Visualized Experiments</i> , 2013, , e50801.	0.2	9
44	Odor-induced oscillatory activity in <i>Drosophila</i> CNS. <i>Biological Bulletin</i> , 2000, 199, 170-171.	0.7	4
45	Calcium Imaging of Pheromone Responses in the Insect Antennal Lobe. <i>Methods in Molecular Biology</i> , 2013, 1068, 179-187.	0.4	4
46	Lateral inhibition and concentration-invariant odor perception. <i>Journal of Biology</i> , 2009, 8, 4.	2.7	1
47	Myogenic contractions of a somatic muscle powers rhythmic flow of hemolymph through <i>Drosophila</i> antennae and generates brain pulsations. <i>Journal of Experimental Biology</i> , 2021, 224, .	0.8	1
48	Dystrophin is required for normal synaptic gain in the <i>Drosophila</i> olfactory circuit. <i>Brain Research</i> , 2019, 1712, 158-166.	1.1	1
49	Calcium Imaging in the <i>Drosophila</i> Olfactory System with a Genetic Indicator. <i>Cold Spring Harbor Protocols</i> , 2013, 2013, pdb.prot078568-pdb.prot078568.	0.2	0
50	Remote Focusing Differential Multiphoton Microscopy: Application to Neuronal Imaging. , 2011, , .		0
51	Transcuticular three-photon fluorescence imaging of <i>Drosophila</i> brain at subcellular resolution with adaptive optics. , 2017, , .		0