

# Ann-Shyn Chiang

## List of Publications by Year in descending order

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91  
papers

6,505  
citations

126907

33  
h-index

71685

76  
g-index

101  
all docs

101  
docs citations

101  
times ranked

7273  
citing authors

#	ARTICLE	IF	CITATIONS
1	Three-Dimensional Reconstruction of Brain-wide Wiring Networks in <i>Drosophila</i> at Single-Cell Resolution. <i>Current Biology</i> , 2011, 21, 1-11.	3.9	761
2	Neural stem and progenitor cells in nestin-GFP transgenic mice. <i>Journal of Comparative Neurology</i> , 2004, 469, 311-324.	1.6	640
3	Dissecting the pathological effects of human A $\beta$ <sup>240</sup> and A $\beta$ <sup>242</sup> in <i>Drosophila</i> : A potential model for Alzheimer's disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 6623-6628.	7.1	444
4	The staufer/pumilio Pathway Is Involved in <i>Drosophila</i> Long-Term Memory. <i>Current Biology</i> , 2003, 13, 286-296.	3.9	432
5	Delivery of nitric oxide with a nanocarrier promotes tumour vessel normalization and potentiates anti-cancer therapies. <i>Nature Nanotechnology</i> , 2019, 14, 1160-1169.	31.5	267
6	NMDA Receptors Mediate Olfactory Learning and Memory in <i>Drosophila</i> . <i>Current Biology</i> , 2005, 15, 603-615.	3.9	216
7	Gradients of the <i>Drosophila</i> Chinmo BTB-Zinc Finger Protein Govern Neuronal Temporal Identity. <i>Cell</i> , 2006, 127, 409-422.	28.9	213
8	A Map of Olfactory Representation in the <i>Drosophila</i> Mushroom Body. <i>Cell</i> , 2007, 128, 1205-1217.	28.9	206
9	Connectomics-Based Analysis of Information Flow in the <i>Drosophila</i> Brain. <i>Current Biology</i> , 2015, 25, 1249-1258.	3.9	160
10	A Comprehensive Wiring Diagram of the Protocerebral Bridge for Visual Information Processing in the <i>Drosophila</i> Brain. <i>Cell Reports</i> , 2013, 3, 1739-1753.	6.4	159
11	Visualizing Long-Term Memory Formation in Two Neurons of the <i>Drosophila</i> Brain. <i>Science</i> , 2012, 335, 678-685.	12.6	157
12	Aging Specifically Impairs amnesiac-Dependent Memory in <i>Drosophila</i> . <i>Neuron</i> , 2003, 40, 1003-1011.	8.1	155
13	Specific requirement of NMDA receptors for long-term memory consolidation in <i>Drosophila</i> ellipsoid body. <i>Nature Neuroscience</i> , 2007, 10, 1578-1586.	14.8	152
14	Distinct Roles of TRP Channels in Auditory Transduction and Amplification in <i>Drosophila</i> . <i>Neuron</i> , 2013, 77, 115-128.	8.1	151
15	Identification of combinatorial drug regimens for treatment of Huntington's disease using <i>Drosophila</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 3777-3781.	7.1	150
16	Imaging of an Early Memory Trace in the <i>Drosophila</i> Mushroom Body. <i>Journal of Neuroscience</i> , 2008, 28, 4368-4376.	3.6	119
17	Serotonin "mushroom body circuit modulating the formation of anesthesia-resistant memory in <i>Drosophila</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 13794-13799.	7.1	119
18	<i>Drosophila</i> ORB protein in two mushroom body output neurons is necessary for long-term memory formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 7898-7903.	7.1	115

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19	Insect NMDA receptors mediate juvenile hormone biosynthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 37-42.	7.1	101
20	Heterotypic Gap Junctions between Two Neurons in the <i>Drosophila</i> Brain Are Critical for Memory. <i>Current Biology</i> , 2011, 21, 848-854.	3.9	97
21	An Octopamine-Mushroom Body Circuit Modulates the Formation of Anesthesia-Resistant Memory in <i>Drosophila</i> . <i>Current Biology</i> , 2013, 23, 2346-2354.	3.9	92
22	Development of the <i>Drosophila</i> mushroom bodies: elaboration, remodeling and spatial organization of dendrites in the calyx. <i>Development (Cambridge)</i> , 2003, 130, 2603-2610.	2.5	86
23	Auditory circuit in the <i>Drosophila</i> brain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 2607-2612.	7.1	85
24	Selection of Motor Programs for Suppressing Food Intake and Inducing Locomotion in the <i>Drosophila</i> Brain. <i>PLoS Biology</i> , 2014, 12, e1001893.	5.6	81
25	Octopamine Neuromodulatory Effects on a Social Behavior Decision-Making Network in <i>Drosophila</i> Males. <i>PLoS ONE</i> , 2010, 5, e13248.	2.5	80
26	Microtome-Free 3-Dimensional Confocal Imaging Method for Visualization of Mouse Intestine With Subcellular-Level Resolution. <i>Gastroenterology</i> , 2009, 137, 453-465.	1.3	79
27	Three-dimensional mapping of brain neuropils in the cockroach, <i>Diploptera punctata</i> . <i>Journal of Comparative Neurology</i> , 2001, 440, 1-11.	1.6	77
28	Blockade of Neurotransmission in <i>Drosophila</i> Mushroom Bodies Impairs Odor Attraction, but Not Repulsion. <i>Current Biology</i> , 2003, 13, 1900-1904.	3.9	75
29	Molecular Genetic Analysis of Sexual Rejection: Roles of Octopamine and Its Receptor OAMB in <i>Drosophila</i> Courtship Conditioning. <i>Journal of Neuroscience</i> , 2012, 32, 14281-14287.	3.6	69
30	Parallel Neural Pathways Mediate CO <sub>2</sub> Avoidance Responses in <i>Drosophila</i> . <i>Science</i> , 2013, 340, 1338-1341.	12.6	69
31	High-resolution confocal imaging and three-dimensional rendering. <i>Methods</i> , 2003, 30, 86-93.	3.8	66
32	Pathogenic VCP/TER94 Alleles Are Dominant Actives and Contribute to Neurodegeneration by Altering Cellular ATP Level in a <i>Drosophila</i> IBMPFD Model. <i>PLoS Genetics</i> , 2011, 7, e1001288.	3.5	53
33	Asymmetric ephaptic inhibition between compartmentalized olfactory receptor neurons. <i>Nature Communications</i> , 2019, 10, 1560.	12.8	52
34	Systems memory consolidation in <i>Drosophila</i> . <i>Current Opinion in Neurobiology</i> , 2013, 23, 84-91.	4.2	49
35	Long-term memory requires sequential protein synthesis in three subsets of mushroom body output neurons in <i>Drosophila</i> . <i>Scientific Reports</i> , 2017, 7, 7112.	3.3	38
36	Optogenetic control of selective neural activity in multiple freely moving <i>Drosophila</i> adults. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 5367-5372.	7.1	36

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37	Q&A: Why use synchrotron x-ray tomography for multi-scale connectome mapping?. BMC Biology, 2017, 15, 122.	3.8	34
38	Three-dimensional optical method for integrated visualization of mouse islet microstructure and vascular network with subcellular-level resolution. Journal of Biomedical Optics, 2010, 15, 046018.	2.6	30
39	High-throughput Computer Method for 3D Neuronal Structure Reconstruction from the Image Stack of the Drosophila Brain and Its Applications. PLoS Computational Biology, 2012, 8, e1002658.	3.2	26
40	Glutamate-gated chloride channels inhibit juvenile hormone biosynthesis in the cockroach, <i>Diploptera punctata</i> . Insect Biochemistry and Molecular Biology, 2005, 35, 1260-1268.	2.7	25
41	Rapid single-wavelength lightsheet localization microscopy for clarified tissue. Nature Communications, 2019, 10, 4762.	12.8	25
42	Additive Expression of Consolidated Memory through Drosophila Mushroom Body Subsets. PLoS Genetics, 2016, 12, e1006061.	3.5	25
43	<i>Drosophila</i> PQBP1 Regulates Learning Acquisition at Projection Neurons in Aversive Olfactory Conditioning. Journal of Neuroscience, 2010, 30, 14091-14101.	3.6	24
44	Toward Whole-Body Connectomics. Journal of Neuroscience, 2016, 36, 11375-11383.	3.6	24
45	A Single-Cell Level and Connectome-Derived Computational Model of the Drosophila Brain. Frontiers in Neuroinformatics, 2018, 12, 99.	2.5	24
46	A synchrotron X-ray imaging strategy to map large animal brains. Chinese Journal of Physics, 2020, 65, 24-32.	3.9	24
47	Parallel circuits control temperature preference in Drosophila during ageing. Nature Communications, 2015, 6, 7775.	12.8	22
48	Glutamate-induced rise in cytosolic calcium concentration stimulates in vitro rates of juvenile hormone biosynthesis in corpus allatum of <i>Diploptera punctata</i> . Molecular and Cellular Endocrinology, 1999, 158, 163-171.	3.2	21
49	Diversity and wiring variability of visual local neurons in the Drosophila medulla M6 stratum. Journal of Comparative Neurology, 2014, 522, 3795-3816.	1.6	20
50	Anatomical Characterization of Thermosensory AC Neurons in the Adult <i>Drosophila</i> Brain. Journal of Neurogenetics, 2011, 25, 1-6.	1.4	18
51	Three-wavelength light control of freely moving Drosophila <i>Melanogaster</i> for less perturbation and efficient social-behavioral studies. Biomedical Optics Express, 2015, 6, 514.	2.9	17
52	Light field microscopy based on structured light illumination. Optics Letters, 2021, 46, 3424.	3.3	15
53	Optical volumetric brain imaging: speed, depth, and resolution enhancement. Journal Physics D: Applied Physics, 2021, 54, 323002.	2.8	14
54	Optical properties of adult Drosophila brains in one-, two-, and three-photon microscopy. Biomedical Optics Express, 2019, 10, 1627.	2.9	14

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55	Millisecond two-photon optical ribbon imaging for small-animal functional connectome study. <i>Optics Letters</i> , 2019, 44, 3190.	3.3	14
56	The Neuron Navigator: Exploring the information pathway through the neural maze. , 2011, , .		13
57	CREBA and CREBB in two identified neurons gate long-term memory formation in <i>Drosophila</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	13
58	Diverse Community Structures in the Neuronal-Level Connectome of the <i>Drosophila</i> Brain. <i>Neuroinformatics</i> , 2020, 18, 267-281.	2.8	12
59	High-throughput multiphoton-induced three-dimensional ablation and imaging for biotissues. <i>Biomedical Optics Express</i> , 2015, 6, 491.	2.9	11
60	Non-invasive manipulation of <i>Drosophila</i> behavior by two-photon excited red-activatable channelrhodopsin. <i>Biomedical Optics Express</i> , 2015, 6, 4344.	2.9	10
61	Automated <i>in situ</i> brain imaging for mapping the <i>Drosophila</i> connectome. <i>Journal of Neurogenetics</i> , 2015, 29, 157-168.	1.4	10
62	Soma Detection in 3D Images of Neurons using Machine Learning Technique. <i>Neuroinformatics</i> , 2018, 16, 31-41.	2.8	10
63	Neural control of cell size in the corpora allata during the reproductive cycle of the cockroach <i>Diploptera punctata</i> (Dictyoptera: Blaberidae). <i>Invertebrate Reproduction and Development</i> , 1998, 33, 25-34.	0.8	9
64	Imaging through the Whole Brain of <i>Drosophila</i> at $\approx 20$ Super-resolution. <i>IScience</i> , 2019, 14, 164-170.	4.1	9
65	All-Optical Volumetric Physiology for Connectomics in Dense Neuronal Structures. <i>IScience</i> , 2019, 22, 133-146.	4.1	9
66	Developing a Stereotypical <i>Drosophila</i> Brain Atlas. <i>IEEE Transactions on Biomedical Engineering</i> , 2014, 61, 2848-2858.	4.2	8
67	Comprehensive map of visual projection neurons for processing ultraviolet information in the <i>Drosophila</i> brain. <i>Journal of Comparative Neurology</i> , 2021, 529, 1988-2013.	1.6	8
68	Genes and Circuits for Olfactory-Associated Long-Term Memory in <i>Drosophila</i> . <i>Journal of Neurogenetics</i> , 2008, 22, 257-284.	1.4	6
69	NMDA Receptors in <i>Drosophila</i> . <i>Frontiers in Neuroscience</i> , 2008, , 213-233.	0.0	6
70	Neuropeptide F inhibits dopamine neuron interference of long-term memory consolidation in <i>Drosophila</i> . <i>IScience</i> , 2021, 24, 103506.	4.1	6
71	Toward the <i>Drosophila</i> connectome: structural analysis of the brain network. <i>BMC Neuroscience</i> , 2013, 14, .	1.9	5
72	Retention of Features on a Mapped <i>Drosophila</i> Brain Surface Using a BÃ©zier-Tube-Based Surface Model Averaging Technique. <i>IEEE Transactions on Biomedical Engineering</i> , 2012, 59, 3314-3326.	4.2	4

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73	Three-Dimensional Tracking of Multiple Small Insects by a Single Camera. <i>Journal of Insect Science</i> , 2021, 21, .	1.5	4
74	A semi-automatic method for neuron centerline extraction in confocal microscopic image stack. , 2008, , .		3
75	NeuroRetriever: Automatic Neuron Segmentation for Connectome Assembly. <i>Frontiers in Systems Neuroscience</i> , 2021, 15, 687182.	2.5	3
76	Optogenetic Manipulation of Selective Neural Activity in Free-Moving <i>Drosophila</i> Adults. <i>Methods in Molecular Biology</i> , 2016, 1408, 377-387.	0.9	2
77	The new X-ray/visible microscopy MAXWELL technique for fast three-dimensional nanoimaging with isotropic resolution. <i>Scientific Reports</i> , 2022, 12, .	3.3	2
78	Connectivity and path analysis for neuron network in the <i>Drosophila</i> brain. , 2013, , .		1
79	On the robustness of the <i>Drosophila</i> neural network. , 2013, , .		1
80	Large-scale segmentation and tracing for neurons in <i>Drosophila</i> brain by Fast Automatically Structural Tracing Algorithm (FASTA). <i>BMC Neuroscience</i> , 2013, 14, .	1.9	0
81	Imaging <i>Drosophila</i> brain neurons for "FlyCircuit" analysis. , 0, , 268-272.		0
82	Large-scale quantitative analysis of neurons via morphological structures by Fast Automatically Structural Tracing Algorithm (FAST). <i>BMC Neuroscience</i> , 2015, 16, .	1.9	0
83	Activating neurons by light in free moving adult flies. , 2015, , .		0
84	Kaleido: Visualizing Big Brain Data with Automatic Color Assignment for Single-Neuron Images. <i>Neuroinformatics</i> , 2018, 16, 207-215.	2.8	0
85	Multiscale and Multimodal Imaging for Connectomics. <i>Progress in Optical Science and Photonics</i> , 2019, , 3-45.	0.5	0
86	Forgetting memories through distinct actin remodeling mechanisms. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 20807-20808.	7.1	0
87	<i>Drosophila</i> Brain Functional Data Analysis: A Unified Framework. , 2020, 2020, 1088-1091.		0
88	Cover Image, Volume 529, Issue 8. <i>Journal of Comparative Neurology</i> , 2021, 529, C2.	1.6	0
89	Two-photon excited ReaChR by a three-stage femtosecond optical parametric amplifier. , 2015, , .		0
90	Imaging Through the Whole Brain of <i>Drosophila</i> at $\lambda/20$ Super-Resolution. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0

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91	Computing Image Intersection and Union Regions for Drosophila Neurons Based on Multi-core CPUs. Communications in Computer and Information Science, 2019, , 294-303.	0.5	0