

Ann-Shyn Chiang

List of Publications by Year in descending order

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Version: 2024-02-01

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 | 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 |
| 2 | 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 |
| 3 | Cover Image, Volume 529, Issue 8. <i>Journal of Comparative Neurology</i> , 2021, 529, C2. | 1.6 | 0 |
| 4 | Light field microscopy based on structured light illumination. <i>Optics Letters</i> , 2021, 46, 3424. | 3.3 | 15 |
| 5 | Optical volumetric brain imaging: speed, depth, and resolution enhancement. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 323002. | 2.8 | 14 |
| 6 | NeuroRetriever: Automatic Neuron Segmentation for Connectome Assembly. <i>Frontiers in Systems Neuroscience</i> , 2021, 15, 687182. | 2.5 | 3 |
| 7 | 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 |
| 8 | Three-Dimensional Tracking of Multiple Small Insects by a Single Camera. <i>Journal of Insect Science</i> , 2021, 21, . | 1.5 | 4 |
| 9 | Neuropeptide F inhibits dopamine neuron interference of long-term memory consolidation in <i>Drosophila</i> . <i>IScience</i> , 2021, 24, 103506. | 4.1 | 6 |
| 10 | Diverse Community Structures in the Neuronal-Level Connectome of the <i>Drosophila</i> Brain. <i>Neuroinformatics</i> , 2020, 18, 267-281. | 2.8 | 12 |
| 11 | <i>Drosophila</i> Brain Functional Data Analysis: A Unified Framework. , 2020, 2020, 1088-1091. | | 0 |
| 12 | A synchrotron X-ray imaging strategy to map large animal brains. <i>Chinese Journal of Physics</i> , 2020, 65, 24-32. | 3.9 | 24 |
| 13 | Multiscale and Multimodal Imaging for Connectomics. <i>Progress in Optical Science and Photonics</i> , 2019, , 3-45. | 0.5 | 0 |
| 14 | Rapid single-wavelength lightsheet localization microscopy for clarified tissue. <i>Nature Communications</i> , 2019, 10, 4762. | 12.8 | 25 |
| 15 | 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 |
| 16 | Asymmetric ephaptic inhibition between compartmentalized olfactory receptor neurons. <i>Nature Communications</i> , 2019, 10, 1560. | 12.8 | 52 |
| 17 | Imaging through the Whole Brain of <i>Drosophila</i> at $\lambda/20$ Super-resolution. <i>IScience</i> , 2019, 14, 164-170. | 4.1 | 9 |
| 18 | All-Optical Volumetric Physiology for Connectomics in Dense Neuronal Structures. <i>IScience</i> , 2019, 22, 133-146. | 4.1 | 9 |

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|----|--|------|-----------|
| 19 | 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 |
| 20 | Optical properties of adult <i>Drosophila</i> brains in one-, two-, and three-photon microscopy. <i>Biomedical Optics Express</i> , 2019, 10, 1627. | 2.9 | 14 |
| 21 | Millisecond two-photon optical ribbon imaging for small-animal functional connectome study. <i>Optics Letters</i> , 2019, 44, 3190. | 3.3 | 14 |
| 22 | Computing Image Intersection and Union Regions for <i>Drosophila</i> Neurons Based on Multi-core CPUs. <i>Communications in Computer and Information Science</i> , 2019, , 294-303. | 0.5 | 0 |
| 23 | Kaleido: Visualizing Big Brain Data with Automatic Color Assignment for Single-Neuron Images. <i>Neuroinformatics</i> , 2018, 16, 207-215. | 2.8 | 0 |
| 24 | Soma Detection in 3D Images of Neurons using Machine Learning Technique. <i>Neuroinformatics</i> , 2018, 16, 31-41. | 2.8 | 10 |
| 25 | A Single-Cell Level and Connectome-Derived Computational Model of the <i>Drosophila</i> Brain. <i>Frontiers in Neuroinformatics</i> , 2018, 12, 99. | 2.5 | 24 |
| 26 | 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 |
| 27 | Q&A: Why use synchrotron x-ray tomography for multi-scale connectome mapping?. <i>BMC Biology</i> , 2017, 15, 122. | 3.8 | 34 |
| 28 | Toward Whole-Body Connectomics. <i>Journal of Neuroscience</i> , 2016, 36, 11375-11383. | 3.6 | 24 |
| 29 | Additive Expression of Consolidated Memory through <i>Drosophila</i> Mushroom Body Subsets. <i>PLoS Genetics</i> , 2016, 12, e1006061. | 3.5 | 25 |
| 30 | 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 |
| 31 | 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 |
| 32 | 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 |
| 33 | Activating neurons by light in free moving adult flies. , 2015, , . | | 0 |
| 34 | Connectomics-Based Analysis of Information Flow in the <i>Drosophila</i> Brain. <i>Current Biology</i> , 2015, 25, 1249-1258. | 3.9 | 160 |
| 35 | Three-wavelength light control of freely moving <i>Drosophila Melanogaster</i> for less perturbation and efficient social-behavioral studies. <i>Biomedical Optics Express</i> , 2015, 6, 514. | 2.9 | 17 |
| 36 | High-throughput multiphoton-induced three-dimensional ablation and imaging for biotissues. <i>Biomedical Optics Express</i> , 2015, 6, 491. | 2.9 | 11 |

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|----|---|------|-----------|
| 37 | 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 |
| 38 | Parallel circuits control temperature preference in <i>Drosophila</i> during ageing. <i>Nature Communications</i> , 2015, 6, 7775. | 12.8 | 22 |
| 39 | Two-photon excited ReaChR by a three-stage femtosecond optical parametric amplifier. , 2015, , . | | 0 |
| 40 | Developing a Stereotypical <i>Drosophila</i> Brain Atlas. <i>IEEE Transactions on Biomedical Engineering</i> , 2014, 61, 2848-2858. | 4.2 | 8 |
| 41 | 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 |
| 42 | Diversity and wiring variability of visual local neurons in the <i>Drosophila</i> medulla M6 stratum. <i>Journal of Comparative Neurology</i> , 2014, 522, 3795-3816. | 1.6 | 20 |
| 43 | 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 |
| 44 | 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 |
| 45 | Toward the <i>Drosophila</i> connectome: structural analysis of the brain network. <i>BMC Neuroscience</i> , 2013, 14, . | 1.9 | 5 |
| 46 | 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 |
| 47 | Connectivity and path analysis for neuron network in the <i>Drosophila</i> brain. , 2013, , . | | 1 |
| 48 | 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 |
| 49 | Distinct Roles of TRP Channels in Auditory Transduction and Amplification in <i>Drosophila</i> . <i>Neuron</i> , 2013, 77, 115-128. | 8.1 | 151 |
| 50 | Systems memory consolidation in <i>Drosophila</i> . <i>Current Opinion in Neurobiology</i> , 2013, 23, 84-91. | 4.2 | 49 |
| 51 | <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 |
| 52 | On the robustness of the <i>Drosophila</i> neural network. , 2013, , . | | 1 |
| 53 | Parallel Neural Pathways Mediate CO ₂ Avoidance Responses in <i>Drosophila</i> . <i>Science</i> , 2013, 340, 1338-1341. | 12.6 | 69 |
| 54 | High-throughput Computer Method for 3D Neuronal Structure Reconstruction from the Image Stack of the <i>Drosophila</i> Brain and Its Applications. <i>PLoS Computational Biology</i> , 2012, 8, e1002658. | 3.2 | 26 |

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|----|--|------|-----------|
| 55 | Auditory circuit in the <i>Drosophila</i> brain. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 2607-2612. | 7.1 | 85 |
| 56 | Retention of Features on a Mapped <i>Drosophila</i> Brain Surface Using a BÄzier-Tube-Based Surface Model Averaging Technique. IEEE Transactions on Biomedical Engineering, 2012, 59, 3314-3326. | 4.2 | 4 |
| 57 | Visualizing Long-Term Memory Formation in Two Neurons of the <i>Drosophila</i> Brain. Science, 2012, 335, 678-685. | 12.6 | 157 |
| 58 | 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. | 3.6 | 69 |
| 59 | The Neuron Navigator: Exploring the information pathway through the neural maze. , 2011, , . | | 13 |
| 60 | Anatomical Characterization of Thermosensory AC Neurons in the Adult <i>Drosophila</i> Brain. Journal of Neurogenetics, 2011, 25, 1-6. | 1.4 | 18 |
| 61 | Three-Dimensional Reconstruction of Brain-wide Wiring Networks in <i>Drosophila</i> at Single-Cell Resolution. Current Biology, 2011, 21, 1-11. | 3.9 | 761 |
| 62 | Heterotypic Gap Junctions between Two Neurons in the <i>Drosophila</i> Brain Are Critical for Memory. Current Biology, 2011, 21, 848-854. | 3.9 | 97 |
| 63 | Serotoninâ€mushroom body circuit modulating the formation of anesthesia-resistant memory in <i>Drosophila</i> . Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 13794-13799. | 7.1 | 119 |
| 64 | Pathogenic VCP/TER94 Alleles Are Dominant Actives and Contribute to Neurodegeneration by Altering Cellular ATP Level in a <i>Drosophila</i> IBMPFD Model. PLoS Genetics, 2011, 7, e1001288. | 3.5 | 53 |
| 65 | Octopamine Neuromodulatory Effects on a Social Behavior Decision-Making Network in <i>Drosophila</i> Males. PLoS ONE, 2010, 5, e13248. | 2.5 | 80 |
| 66 | <i>Drosophila</i> PQBP1 Regulates Learning Acquisition at Projection Neurons in Aversive Olfactory Conditioning. Journal of Neuroscience, 2010, 30, 14091-14101. | 3.6 | 24 |
| 67 | 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 |
| 68 | Microtome-Free 3-Dimensional Confocal Imaging Method for Visualization of Mouse Intestine With Subcellular-Level Resolution. Gastroenterology, 2009, 137, 453-465. | 1.3 | 79 |
| 69 | Genes and Circuits for Olfactory-Associated Long-Term Memory in <i>Drosophila</i> . Journal of Neurogenetics, 2008, 22, 257-284. | 1.4 | 6 |
| 70 | Imaging of an Early Memory Trace in the <i>Drosophila</i> Mushroom Body. Journal of Neuroscience, 2008, 28, 4368-4376. | 3.6 | 119 |
| 71 | A semi-automatic method for neuron centerline extraction in confocal microscopic image stack. , 2008, , . | | 3 |
| 72 | NMDA Receptors in <i>Drosophila</i> . Frontiers in Neuroscience, 2008, , 213-233. | 0.0 | 6 |

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|----|---|------|-----------|
| 73 | A Map of Olfactory Representation in the Drosophila Mushroom Body. <i>Cell</i> , 2007, 128, 1205-1217. | 28.9 | 206 |
| 74 | Specific requirement of NMDA receptors for long-term memory consolidation in Drosophila ellipsoid body. <i>Nature Neuroscience</i> , 2007, 10, 1578-1586. | 14.8 | 152 |
| 75 | Gradients of the Drosophila Chinmo BTB-Zinc Finger Protein Govern Neuronal Temporal Identity. <i>Cell</i> , 2006, 127, 409-422. | 28.9 | 213 |
| 76 | NMDA Receptors Mediate Olfactory Learning and Memory in Drosophila. <i>Current Biology</i> , 2005, 15, 603-615. | 3.9 | 216 |
| 77 | Identification of combinatorial drug regimens for treatment of Huntington's disease using Drosophila. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 3777-3781. | 7.1 | 150 |
| 78 | Glutamate-gated chloride channels inhibit juvenile hormone biosynthesis in the cockroach, <i>Diploptera punctata</i> . <i>Insect Biochemistry and Molecular Biology</i> , 2005, 35, 1260-1268. | 2.7 | 25 |
| 79 | Dissecting the pathological effects of human A β 40 and A β 42 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 |
| 80 | Neural stem and progenitor cells in nestin-GFP transgenic mice. <i>Journal of Comparative Neurology</i> , 2004, 469, 311-324. | 1.6 | 640 |
| 81 | The staufen/pumilio Pathway Is Involved in Drosophila Long-Term Memory. <i>Current Biology</i> , 2003, 13, 286-296. | 3.9 | 432 |
| 82 | Blockade of Neurotransmission in Drosophila Mushroom Bodies Impairs Odor Attraction, but Not Repulsion. <i>Current Biology</i> , 2003, 13, 1900-1904. | 3.9 | 75 |
| 83 | High-resolution confocal imaging and three-dimensional rendering. <i>Methods</i> , 2003, 30, 86-93. | 3.8 | 66 |
| 84 | Aging Specifically Impairs amnesiac-Dependent Memory in Drosophila. <i>Neuron</i> , 2003, 40, 1003-1011. | 8.1 | 155 |
| 85 | 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 |
| 86 | 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 |
| 87 | 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 |
| 88 | Glutamate-induced rise in cytosolic calcium concentration stimulates in vitro rates of juvenile hormone biosynthesis in corpus allatum of <i>Diploptera punctata</i> . <i>Molecular and Cellular Endocrinology</i> , 1999, 158, 163-171. | 3.2 | 21 |
| 89 | 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 |
| 90 | Imaging Drosophila brain neurons for FlyCircuit analysis. , 0, , 268-272. | | 0 |

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|----|---|-----|-----------|
| 91 | Imaging Through the Whole Brain of Drosophila at $\lambda/20$ Super-Resolution. SSRN Electronic Journal, 0, , | 0.4 | 0 |