

Cristopher M Niell

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/614167/publications.pdf>

Version: 2024-02-01

40
papers

5,433
citations

236925

25
h-index

315739

38
g-index

50
all docs

50
docs citations

50
times ranked

5097
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Decision Making as a Learned Skill in Mice and Humans. <i>Frontiers in Neuroscience</i> , 2022, 16, 834701. | 2.8 | 6 |
| 2 | Controlled assembly of retinal cells on fractal and Euclidean electrodes. <i>PLoS ONE</i> , 2022, 17, e0265685. | 2.5 | 4 |
| 3 | Natural behavior is the language of the brain. <i>Current Biology</i> , 2022, 32, R482-R493. | 3.9 | 53 |
| 4 | How Cortical Circuits Implement Cortical Computations: Mouse Visual Cortex as a Model. <i>Annual Review of Neuroscience</i> , 2021, 44, 517-546. | 10.7 | 51 |
| 5 | A Distinct Class of Bursting Neurons with Strong Gamma Synchronization and Stimulus Selectivity in Monkey V1. <i>Neuron</i> , 2020, 105, 180-197.e5. | 8.1 | 45 |
| 6 | Precise levels of nectin-3 are required for proper synapse formation in postnatal visual cortex. <i>Neural Development</i> , 2020, 15, 13. | 2.4 | 2 |
| 7 | Movement-Related Signals in Sensory Areas: Roles in Natural Behavior. <i>Trends in Neurosciences</i> , 2020, 43, 581-595. | 8.6 | 97 |
| 8 | Dynamics of gaze control during prey capture in freely moving mice. <i>ELife</i> , 2020, 9, . | 6.0 | 76 |
| 9 | A Hallucinogenic Serotonin-2A Receptor Agonist Reduces Visual Response Gain and Alters Temporal Dynamics in Mouse V1. <i>Cell Reports</i> , 2019, 26, 3475-3483.e4. | 6.4 | 46 |
| 10 | Illuminating the Neural Circuits Underlying Orienting of Attention. <i>Vision (Switzerland)</i> , 2019, 3, 4. | 1.2 | 4 |
| 11 | Defined Cell Types in Superior Colliculus Make Distinct Contributions to Prey Capture Behavior in the Mouse. <i>Current Biology</i> , 2019, 29, 4130-4138.e5. | 3.9 | 105 |
| 12 | Differential Involvement of Three Brain Regions during Mouse Skill Learning. <i>ENeuro</i> , 2019, 6, ENEURO.0143-19.2019. | 1.9 | 6 |
| 13 | Refinement of Spatial Receptive Fields in the Developing Mouse Lateral Geniculate Nucleus Is Coordinated with Excitatory and Inhibitory Remodeling. <i>Journal of Neuroscience</i> , 2018, 38, 4531-4542. | 3.6 | 19 |
| 14 | Seeing with a biased visual cortical map. <i>Journal of Neurophysiology</i> , 2018, 120, 272-273. | 1.8 | 1 |
| 15 | Cortical signatures of wakeful somatosensory processing. <i>Scientific Reports</i> , 2018, 8, 11977. | 3.3 | 40 |
| 16 | Changes in white matter in mice resulting from low-frequency brain stimulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E6339-E6346. | 7.1 | 35 |
| 17 | How changes in white matter might underlie improved reaction time due to practice. <i>Cognitive Neuroscience</i> , 2017, 8, 112-118. | 1.4 | 13 |
| 18 | White matter and reaction time: Reply to commentaries. <i>Cognitive Neuroscience</i> , 2017, 8, 137-140. | 1.4 | 0 |

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|----|---|------|-----------|
| 19 | Rhythmic brain stimulation reduces anxiety-related behavior in a mouse model based on meditation training. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 2532-2537. | 7.1 | 37 |
| 20 | TU-Tagging: A Method for Identifying Layer-Enriched Neuronal Genes in Developing Mouse Visual Cortex. <i>ENeuro</i> , 2017, 4, ENEURO.0181-17.2017. | 1.9 | 13 |
| 21 | Long-Term Optical Access to an Estimated One Million Neurons in the Live Mouse Cortex. <i>Cell Reports</i> , 2016, 17, 3385-3394. | 6.4 | 209 |
| 22 | Visual Processing: Hungry Like the Mouse. <i>Neuron</i> , 2016, 91, 952-953. | 8.1 | 0 |
| 23 | Vision Drives Accurate Approach Behavior during Prey Capture in Laboratory Mice. <i>Current Biology</i> , 2016, 26, 3046-3052. | 3.9 | 181 |
| 24 | Large-scale imaging of cortical dynamics during sensory perception and behavior. <i>Journal of Neurophysiology</i> , 2016, 115, 2852-2866. | 1.8 | 261 |
| 25 | Layer-Specific Refinement of Visual Cortex Function after Eye Opening in the Awake Mouse. <i>Journal of Neuroscience</i> , 2015, 35, 3370-3383. | 3.6 | 100 |
| 26 | Behavioral Stateâ€”Getting â€œIn The Zoneâ€• <i>Neuron</i> , 2015, 87, 7-9. | 8.1 | 14 |
| 27 | Cell Types, Circuits, and Receptive Fields in the Mouse Visual Cortex. <i>Annual Review of Neuroscience</i> , 2015, 38, 413-431. | 10.7 | 70 |
| 28 | Reduced Cortical Activity Impairs Development and Plasticity after Neonatal Hypoxia Ischemia. <i>Journal of Neuroscience</i> , 2015, 35, 11946-11959. | 3.6 | 57 |
| 29 | Auditory Cortex Is Required for Fear Potentiation of Gap Detection. <i>Journal of Neuroscience</i> , 2014, 34, 15437-15445. | 3.6 | 40 |
| 30 | Identification of a Brainstem Circuit Regulating Visual Cortical State in Parallel with Locomotion. <i>Neuron</i> , 2014, 83, 455-466. | 8.1 | 254 |
| 31 | Vision: More Than Expected in the Early Visual System. <i>Current Biology</i> , 2013, 23, R681-R684. | 3.9 | 18 |
| 32 | Diverse Visual Features Encoded in Mouse Lateral Geniculate Nucleus. <i>Journal of Neuroscience</i> , 2013, 33, 4642-4656. | 3.6 | 303 |
| 33 | What can mice tell us about how vision works?. <i>Trends in Neurosciences</i> , 2011, 34, 464-473. | 8.6 | 278 |
| 34 | Exploring the Next Frontier of Mouse Vision. <i>Neuron</i> , 2011, 72, 889-892. | 8.1 | 18 |
| 35 | Modulation of Visual Responses by Behavioral State in Mouse Visual Cortex. <i>Neuron</i> , 2010, 65, 472-479. | 8.1 | 1,290 |
| 36 | Selective Disruption of One Cartesian Axis of Cortical Maps and Receptive Fields by Deficiency inÂEphrin-As and Structured Activity. <i>Neuron</i> , 2008, 57, 511-523. | 8.1 | 81 |

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|----|--|------|-----------|
| 37 | Highly Selective Receptive Fields in Mouse Visual Cortex. <i>Journal of Neuroscience</i> , 2008, 28, 7520-7536. | 3.6 | 938 |
| 38 | Functional Imaging Reveals Rapid Development of Visual Response Properties in the Zebrafish Tectum. <i>Neuron</i> , 2005, 45, 941-951. | 8.1 | 204 |
| 39 | Live Optical Imaging of Nervous System Development. <i>Annual Review of Physiology</i> , 2004, 66, 771-798. | 13.1 | 52 |
| 40 | In vivo imaging of synapse formation on a growing dendritic arbor. <i>Nature Neuroscience</i> , 2004, 7, 254-260. | 14.8 | 384 |