

Thomas Euler

List of Publications by Year in descending order

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Version: 2024-02-01

78
papers

7,559
citations

87723

38
h-index

85405

71
g-index

108
all docs

108
docs citations

108
times ranked

5134
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Redefining the role of Ca ²⁺ -permeable channels in photoreceptor degeneration using diltiazem. <i>Cell Death and Disease</i> , 2022, 13, 47. | 2.7 | 15 |
| 2 | Non-telecentric two-photon microscopy for 3D random access mesoscale imaging. <i>Nature Communications</i> , 2022, 13, 544. | 5.8 | 4 |
| 3 | Retinal horizontal cells use different synaptic sites for global feedforward and local feedback signaling. <i>Current Biology</i> , 2022, 32, 545-558.e5. | 1.8 | 11 |
| 4 | Estimating smooth and sparse neural receptive fields with a flexible spline basis. <i>Neurons, Behavior, Data Analysis, and Theory</i> , 2021, 5, . | 1.8 | 1 |
| 5 | Natural environment statistics in the upper and lower visual field are reflected in mouse retinal specializations. <i>Current Biology</i> , 2021, 31, 3233-3247.e6. | 1.8 | 35 |
| 6 | Systematic spatiotemporal mapping reveals divergent cell death pathways in three mouse models of hereditary retinal degeneration. <i>Journal of Comparative Neurology</i> , 2020, 528, 1113-1139. | 0.9 | 22 |
| 7 | Understanding the retinal basis of vision across species. <i>Nature Reviews Neuroscience</i> , 2020, 21, 5-20. | 4.9 | 191 |
| 8 | Neural circuits in the mouse retina support color vision in the upper visual field. <i>Nature Communications</i> , 2020, 11, 3481. | 5.8 | 70 |
| 9 | Type-specific dendritic integration in mouse retinal ganglion cells. <i>Nature Communications</i> , 2020, 11, 2101. | 5.8 | 30 |
| 10 | The temporal structure of the inner retina at a single glance. <i>Scientific Reports</i> , 2020, 10, 4399. | 1.6 | 14 |
| 11 | Richard H. Masland (1942–2019). <i>Neuron</i> , 2020, 105, 411-412. | 3.8 | 0 |
| 12 | Bayesian inference for biophysical neuron models enables stimulus optimization for retinal neuroprosthetics. <i>ELife</i> , 2020, 9, . | 2.8 | 19 |
| 13 | Studying a Light Sensor with Light: Multiphoton Imaging in the Retina. <i>Neuromethods</i> , 2019, , 225-250. | 0.2 | 25 |
| 14 | Retinal Circuits for Seeing in the Dark. <i>Neuron</i> , 2019, 104, 435-437. | 3.8 | 0 |
| 15 | Bayesian hypothesis testing and experimental design for two-photon imaging data. <i>PLoS Computational Biology</i> , 2019, 15, e1007205. | 1.5 | 7 |
| 16 | Mouse dLGN Receives Functional Input from a Diverse Population of Retinal Ganglion Cells with Limited Convergence. <i>Neuron</i> , 2019, 102, 462-476.e8. | 3.8 | 52 |
| 17 | Function first: classifying cell types and circuits of the retina. <i>Current Opinion in Neurobiology</i> , 2019, 56, 8-15. | 2.0 | 39 |
| 18 | Molecular Fingerprinting of On–Off Direction-Selective Retinal Ganglion Cells Across Species and Relevance to Primate Visual Circuits. <i>Journal of Neuroscience</i> , 2019, 39, 78-95. | 1.7 | 44 |

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|----|---|------|-----------|
| 19 | An arbitrary-spectrum spatial visual stimulator for vision research. <i>ELife</i> , 2019, 8, . | 2.8 | 51 |
| 20 | Combination of cGMP analogue and drug delivery system provides functional protection in hereditary retinal degeneration. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E2997-E3006. | 3.3 | 90 |
| 21 | Spikeling: A low-cost hardware implementation of a spiking neuron for neuroscience teaching and outreach. <i>PLoS Biology</i> , 2018, 16, e2006760. | 2.6 | 4 |
| 22 | Community-based benchmarking improves spike rate inference from two-photon calcium imaging data. <i>PLoS Computational Biology</i> , 2018, 14, e1006157. | 1.5 | 118 |
| 23 | Connectomics of synaptic microcircuits: lessons from the outer retina. <i>Journal of Physiology</i> , 2017, 595, 5517-5524. | 1.3 | 6 |
| 24 | Inhibition decorrelates visual feature representations in the inner retina. <i>Nature</i> , 2017, 542, 439-444. | 13.7 | 225 |
| 25 | Neuronal Diversity In The Retina. <i>E-Neuroforum</i> , 2017, 23, 93-101. | 0.2 | 6 |
| 26 | How do horizontal cells “talk” to cone photoreceptors? Different levels of complexity at the cone horizontal cell synapse. <i>Journal of Physiology</i> , 2017, 595, 5495-5506. | 1.3 | 67 |
| 27 | Local Signals in Mouse Horizontal Cell Dendrites. <i>Current Biology</i> , 2017, 27, 3603-3615.e5. | 1.8 | 20 |
| 28 | Neuronale Vielfalt in der Netzhaut. <i>E-Neuroforum</i> , 2017, 23, 114-123. | 0.2 | 0 |
| 29 | Connectivity map of bipolar cells and photoreceptors in the mouse retina. <i>ELife</i> , 2016, 5, . | 2.8 | 138 |
| 30 | Calcium dynamics change in degenerating cone photoreceptors. <i>Human Molecular Genetics</i> , 2016, 25, 3729-3740. | 1.4 | 28 |
| 31 | Benchmarking Spike Rate Inference in Population Calcium Imaging. <i>Neuron</i> , 2016, 90, 471-482. | 3.8 | 154 |
| 32 | Retinal Physiology: Non-Bipolar-Cell Excitatory Drive in the Inner Retina. <i>Current Biology</i> , 2016, 26, R706-R708. | 1.8 | 2 |
| 33 | Species-specific motion detectors. <i>Nature</i> , 2016, 535, 45-46. | 13.7 | 13 |
| 34 | The functional diversity of retinal ganglion cells in the mouse. <i>Nature</i> , 2016, 529, 345-350. | 13.7 | 788 |
| 35 | Imaging Ca^{2+} Dynamics in Cone Photoreceptor Axon Terminals of the Mouse Retina. <i>Journal of Visualized Experiments</i> , 2015, , e52588. | 0.2 | 9 |
| 36 | Multiple Independent Oscillatory Networks in the Degenerating Retina. <i>Frontiers in Cellular Neuroscience</i> , 2015, 9, 444. | 1.8 | 33 |

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|----|--|-----|-----------|
| 37 | Open Labware: 3-D Printing Your Own Lab Equipment. PLoS Biology, 2015, 13, e1002086. | 2.6 | 239 |
| 38 | Identification of a Common Non-Apoptotic Cell Death Mechanism in Hereditary Retinal Degeneration. PLoS ONE, 2014, 9, e112142. | 1.1 | 191 |
| 39 | Synaptic remodeling generates synchronous oscillations in the degenerated outer mouse retina. Frontiers in Neural Circuits, 2014, 8, 108. | 1.4 | 42 |
| 40 | Differential Regulation of Cone Calcium Signals by Different Horizontal Cell Feedback Mechanisms in the Mouse Retina. Journal of Neuroscience, 2014, 34, 11826-11843. | 1.7 | 52 |
| 41 | Retinal bipolar cells: elementary building blocks of vision. Nature Reviews Neuroscience, 2014, 15, 507-519. | 4.9 | 374 |
| 42 | Spikes and ribbon synapses in early vision. Trends in Neurosciences, 2013, 36, 480-488. | 4.2 | 56 |
| 43 | Early Vision: Where (Some of) the Magic Happens. Current Biology, 2013, 23, R1096-R1098. | 1.8 | 8 |
| 44 | Spikes in Mammalian Bipolar Cells Support Temporal Layering of the Inner Retina. Current Biology, 2013, 23, 48-52. | 1.8 | 137 |
| 45 | A Tale of Two Retinal Domains: Near-Optimal Sampling of Achromatic Contrasts in Natural Scenes through Asymmetric Photoreceptor Distribution. Neuron, 2013, 80, 1206-1217. | 3.8 | 162 |
| 46 | OFF bipolar cells express distinct types of dendritic glutamate receptors in the mouse retina. Neuroscience, 2013, 243, 136-148. | 1.1 | 54 |
| 47 | Developmental Regulation and Activity-Dependent Maintenance of GABAergic Presynaptic Inhibition onto Rod Bipolar Cell Axonal Terminals. Neuron, 2013, 78, 124-137. | 3.8 | 25 |
| 48 | Chromatic Coding from Cone-type Unselective Circuits in the Mouse Retina. Neuron, 2013, 77, 559-571. | 3.8 | 88 |
| 49 | BK Channels Mediate Pathway-Specific Modulation of Visual Signals in the <i>In Vivo</i> Mouse Retina. Journal of Neuroscience, 2012, 32, 4861-4866. | 1.7 | 28 |
| 50 | Light-Driven Calcium Signals in Mouse Cone Photoreceptors. Journal of Neuroscience, 2012, 32, 6981-6994. | 1.7 | 35 |
| 51 | Computation of motion direction in the vertebrate retina. E-Neuroforum, 2012, 18, . | 0.2 | 1 |
| 52 | Wie die Netzhaut die Richtung von Bewegungen berechnet. E-Neuroforum, 2012, 18, 234-245. | 0.2 | 0 |
| 53 | GABAA Receptors Containing the $\hat{1}\pm 2$ Subunit Are Critical for Direction-Selective Inhibition in the Retina. PLoS ONE, 2012, 7, e35109. | 1.1 | 22 |
| 54 | Seeing Things in Motion: Models, Circuits, and Mechanisms. Neuron, 2011, 71, 974-994. | 3.8 | 223 |

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|----|--|------|-----------|
| 55 | Bulk electroporation and population calcium imaging in the adult mammalian retina. <i>Journal of Neurophysiology</i> , 2011, 105, 2601-2609. | 0.9 | 61 |
| 56 | Chromatic Bipolar Cell Pathways in the Mouse Retina. <i>Journal of Neuroscience</i> , 2011, 31, 6504-6517. | 1.7 | 115 |
| 57 | Retinal Processing: Global Players Like It Local. <i>Current Biology</i> , 2010, 20, R486-R488. | 1.8 | 6 |
| 58 | Dendritic Calcium Signaling in ON and OFF Mouse Retinal Ganglion Cells. <i>Journal of Neuroscience</i> , 2010, 30, 7127-7138. | 1.7 | 51 |
| 59 | Eyecup scope—optical recordings of light stimulus-evoked fluorescence signals in the retina. <i>Pflugers Archiv European Journal of Physiology</i> , 2009, 457, 1393-1414. | 1.3 | 149 |
| 60 | A novel type of interplexiform amacrine cell in the mouse retina. <i>European Journal of Neuroscience</i> , 2009, 30, 217-228. | 1.2 | 36 |
| 61 | Toxicity Assessment of Intravitreal Triamcinolone and Bevacizumab in a Retinal Explant Mouse Model Using Two-Photon Microscopy. , 2009, 50, 5880. | | 17 |
| 62 | Direction-Selective Cells. , 2008, , 413-422. | | 4 |
| 63 | Functional Stability of Retinal Ganglion Cells after Degeneration-Induced Changes in Synaptic Input. <i>Journal of Neuroscience</i> , 2008, 28, 6526-6536. | 1.7 | 202 |
| 64 | A Dendrite-Autonomous Mechanism for Direction Selectivity in Retinal Starburst Amacrine Cells. <i>PLoS Biology</i> , 2007, 5, e185. | 2.6 | 139 |
| 65 | Two-Photon Imaging Reveals Somatodendritic Chloride Gradient in Retinal ON-Type Bipolar Cells Expressing the Biosensor Clomeleon. <i>Neuron</i> , 2006, 49, 81-94. | 3.8 | 154 |
| 66 | The Primordial, Blue-Cone Color System of the Mouse Retina. <i>Journal of Neuroscience</i> , 2005, 25, 5438-5445. | 1.7 | 256 |
| 67 | Direction-Selective Dendritic Action Potentials in Rabbit Retina. <i>Neuron</i> , 2005, 47, 739-750. | 3.8 | 158 |
| 68 | Functional Fluorescent Ca ²⁺ Indicator Proteins in Transgenic Mice under TET Control. <i>PLoS Biology</i> , 2004, 2, e163. | 2.6 | 216 |
| 69 | G protein subunit G ^β 13 is coexpressed with G ^α o, G ^β 23, and G ^β 24 in retinal ON bipolar cells. <i>Journal of Comparative Neurology</i> , 2003, 455, 1-10. | 0.9 | 114 |
| 70 | Directionally selective calcium signals in dendrites of starburst amacrine cells. <i>Nature</i> , 2002, 418, 845-852. | 18.7 | 533 |
| 71 | Dendritic processing. <i>Current Opinion in Neurobiology</i> , 2001, 11, 415-422. | 2.0 | 57 |
| 72 | Light-Evoked Responses of Bipolar Cells in a Mammalian Retina. <i>Journal of Neurophysiology</i> , 2000, 83, 1817-1829. | 0.9 | 228 |

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|----|---|-----|-----------|
| 73 | Spatial order within but not between types of retinal neurons. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 2303-2307. | 3.3 | 122 |
| 74 | Different Contributions of GABA _A and GABA _C Receptors to Rod and Cone Bipolar Cells in a Rat Retinal Slice Preparation. Journal of Neurophysiology, 1998, 79, 1384-1395. | 0.9 | 153 |
| 75 | Glutamate Responses of Bipolar Cells in a Slice Preparation of the Rat Retina. Journal of Neuroscience, 1996, 16, 2934-2944. | 1.7 | 191 |
| 76 | Immunocytochemical identification of cone bipolar cells in the rat retina. Journal of Comparative Neurology, 1995, 361, 461-478. | 0.9 | 327 |
| 77 | Co-stratification of GABA _A receptors with the directionally selective circuitry of the rat retina. Visual Neuroscience, 1995, 12, 345-358. | 0.5 | 60 |
| 78 | Mouse dLGN Receives Input from a Diverse Population of Retinal Ganglion Cells with Limited Functional Convergence. SSRN Electronic Journal, 0, , . | 0.4 | 0 |