

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	The functional diversity of retinal ganglion cells in the mouse. <i>Nature</i> , 2016, 529, 345-350.	13.7	788
2	Directionally selective calcium signals in dendrites of starburst amacrine cells. <i>Nature</i> , 2002, 418, 845-852.	13.7	533
3	Retinal bipolar cells: elementary building blocks of vision. <i>Nature Reviews Neuroscience</i> , 2014, 15, 507-519.	4.9	374
4	Immunocytochemical identification of cone bipolar cells in the rat retina. <i>Journal of Comparative Neurology</i> , 1995, 361, 461-478.	0.9	327
5	The Primordial, Blue-Cone Color System of the Mouse Retina. <i>Journal of Neuroscience</i> , 2005, 25, 5438-5445.	1.7	256
6	Open Labware: 3-D Printing Your Own Lab Equipment. <i>PLoS Biology</i> , 2015, 13, e1002086.	2.6	239
7	Light-Evoked Responses of Bipolar Cells in a Mammalian Retina. <i>Journal of Neurophysiology</i> , 2000, 83, 1817-1829.	0.9	228
8	Inhibition decorrelates visual feature representations in the inner retina. <i>Nature</i> , 2017, 542, 439-444.	13.7	225
9	Seeing Things in Motion: Models, Circuits, and Mechanisms. <i>Neuron</i> , 2011, 71, 974-994.	3.8	223
10	Functional Fluorescent Ca ²⁺ Indicator Proteins in Transgenic Mice under TET Control. <i>PLoS Biology</i> , 2004, 2, e163.	2.6	216
11	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
12	Glutamate Responses of Bipolar Cells in a Slice Preparation of the Rat Retina. <i>Journal of Neuroscience</i> , 1996, 16, 2934-2944.	1.7	191
13	Identification of a Common Non-Apoptotic Cell Death Mechanism in Hereditary Retinal Degeneration. <i>PLoS ONE</i> , 2014, 9, e112142.	1.1	191
14	Understanding the retinal basis of vision across species. <i>Nature Reviews Neuroscience</i> , 2020, 21, 5-20.	4.9	191
15	A Tale of Two Retinal Domains: Near-Optimal Sampling of Achromatic Contrasts in Natural Scenes through Asymmetric Photoreceptor Distribution. <i>Neuron</i> , 2013, 80, 1206-1217.	3.8	162
16	Direction-Selective Dendritic Action Potentials in Rabbit Retina. <i>Neuron</i> , 2005, 47, 739-750.	3.8	158
17	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
18	Benchmarking Spike Rate Inference in Population Calcium Imaging. <i>Neuron</i> , 2016, 90, 471-482.	3.8	154

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19	Different Contributions of GABA _A and GABA _C Receptors to Rod and Cone Bipolar Cells in a Rat Retinal Slice Preparation. <i>Journal of Neurophysiology</i> , 1998, 79, 1384-1395.	0.9	153
20	Eye-cup scope optical recordings of light stimulus-evoked fluorescence signals in the retina. <i>Pflügers Archiv European Journal of Physiology</i> , 2009, 457, 1393-1414.	1.3	149
21	A Dendrite-Autonomous Mechanism for Direction Selectivity in Retinal Starburst Amacrine Cells. <i>PLoS Biology</i> , 2007, 5, e185.	2.6	139
22	Connectivity map of bipolar cells and photoreceptors in the mouse retina. <i>ELife</i> , 2016, 5, .	2.8	138
23	Spikes in Mammalian Bipolar Cells Support Temporal Layering of the Inner Retina. <i>Current Biology</i> , 2013, 23, 48-52.	1.8	137
24	Spatial order within but not between types of retinal neurons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000, 97, 2303-2307.	3.3	122
25	Community-based benchmarking improves spike rate inference from two-photon calcium imaging data. <i>PLoS Computational Biology</i> , 2018, 14, e1006157.	1.5	118
26	Chromatic Bipolar Cell Pathways in the Mouse Retina. <i>Journal of Neuroscience</i> , 2011, 31, 6504-6517.	1.7	115
27	G protein subunit G β 13 is coexpressed with G α , 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
28	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
29	Chromatic Coding from Cone-type Unselective Circuits in the Mouse Retina. <i>Neuron</i> , 2013, 77, 559-571.	3.8	88
30	Neural circuits in the mouse retina support color vision in the upper visual field. <i>Nature Communications</i> , 2020, 11, 3481.	5.8	70
31	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
32	Bulk electroporation and population calcium imaging in the adult mammalian retina. <i>Journal of Neurophysiology</i> , 2011, 105, 2601-2609.	0.9	61
33	Co-stratification of GABA _A receptors with the directionally selective circuitry of the rat retina. <i>Visual Neuroscience</i> , 1995, 12, 345-358.	0.5	60
34	Dendritic processing. <i>Current Opinion in Neurobiology</i> , 2001, 11, 415-422.	2.0	57
35	Spikes and ribbon synapses in early vision. <i>Trends in Neurosciences</i> , 2013, 36, 480-488.	4.2	56
36	OFF bipolar cells express distinct types of dendritic glutamate receptors in the mouse retina. <i>Neuroscience</i> , 2013, 243, 136-148.	1.1	54

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37	Differential Regulation of Cone Calcium Signals by Different Horizontal Cell Feedback Mechanisms in the Mouse Retina. <i>Journal of Neuroscience</i> , 2014, 34, 11826-11843.	1.7	52
38	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
39	Dendritic Calcium Signaling in ON and OFF Mouse Retinal Ganglion Cells. <i>Journal of Neuroscience</i> , 2010, 30, 7127-7138.	1.7	51
40	An arbitrary-spectrum spatial visual stimulator for vision research. <i>ELife</i> , 2019, 8, .	2.8	51
41	Molecular Fingerprinting of Onâ€“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
42	Synaptic remodeling generates synchronous oscillations in the degenerated outer mouse retina. <i>Frontiers in Neural Circuits</i> , 2014, 8, 108.	1.4	42
43	Function first: classifying cell types and circuits of the retina. <i>Current Opinion in Neurobiology</i> , 2019, 56, 8-15.	2.0	39
44	A novel type of interplexiform amacrine cell in the mouse retina. <i>European Journal of Neuroscience</i> , 2009, 30, 217-228.	1.2	36
45	Light-Driven Calcium Signals in Mouse Cone Photoreceptors. <i>Journal of Neuroscience</i> , 2012, 32, 6981-6994.	1.7	35
46	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
47	Multiple Independent Oscillatory Networks in the Degenerating Retina. <i>Frontiers in Cellular Neuroscience</i> , 2015, 9, 444.	1.8	33
48	Type-specific dendritic integration in mouse retinal ganglion cells. <i>Nature Communications</i> , 2020, 11, 2101.	5.8	30
49	BK Channels Mediate Pathway-Specific Modulation of Visual Signals in the <i>In Vivo</i> Mouse Retina. <i>Journal of Neuroscience</i> , 2012, 32, 4861-4866.	1.7	28
50	Calcium dynamics change in degenerating cone photoreceptors. <i>Human Molecular Genetics</i> , 2016, 25, 3729-3740.	1.4	28
51	Developmental Regulation and Activity-Dependent Maintenance of GABAergic Presynaptic Inhibition onto Rod Bipolar Cell Axonal Terminals. <i>Neuron</i> , 2013, 78, 124-137.	3.8	25
52	Studying a Light Sensor with Light: Multiphoton Imaging in the Retina. <i>Neuromethods</i> , 2019, , 225-250.	0.2	25
53	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
54	GABAA Receptors Containing the δ Subunit Are Critical for Direction-Selective Inhibition in the Retina. <i>PLoS ONE</i> , 2012, 7, e35109.	1.1	22

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55	Local Signals in Mouse Horizontal Cell Dendrites. <i>Current Biology</i> , 2017, 27, 3603-3615.e5.	1.8	20
56	Bayesian inference for biophysical neuron models enables stimulus optimization for retinal neuroprosthetics. <i>ELife</i> , 2020, 9, .	2.8	19
57	Toxicity Assessment of Intravitreal Triamcinolone and Bevacizumab in a Retinal Explant Mouse Model Using Two-Photon Microscopy. , 2009, 50, 5880.		17
58	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
59	The temporal structure of the inner retina at a single glance. <i>Scientific Reports</i> , 2020, 10, 4399.	1.6	14
60	Species-specific motion detectors. <i>Nature</i> , 2016, 535, 45-46.	13.7	13
61	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
62	Imaging Ca ²⁺ Dynamics in Cone Photoreceptor Axon Terminals of the Mouse Retina. <i>Journal of Visualized Experiments</i> , 2015, , e52588.	0.2	9
63	Early Vision: Where (Some of) the Magic Happens. <i>Current Biology</i> , 2013, 23, R1096-R1098.	1.8	8
64	Bayesian hypothesis testing and experimental design for two-photon imaging data. <i>PLoS Computational Biology</i> , 2019, 15, e1007205.	1.5	7
65	Retinal Processing: Global Players Like It Local. <i>Current Biology</i> , 2010, 20, R486-R488.	1.8	6
66	Connectomics of synaptic microcircuits: lessons from the outer retina. <i>Journal of Physiology</i> , 2017, 595, 5517-5524.	1.3	6
67	Neuronal Diversity In The Retina. <i>E-Neuroforum</i> , 2017, 23, 93-101.	0.2	6
68	Direction-Selective Cells. , 2008, , 413-422.		4
69	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
70	Non-telecentric two-photon microscopy for 3D random access mesoscale imaging. <i>Nature Communications</i> , 2022, 13, 544.	5.8	4
71	Retinal Physiology: Non-Bipolar-Cell Excitatory Drive in the Inner Retina. <i>Current Biology</i> , 2016, 26, R706-R708.	1.8	2
72	Computation of motion direction in the vertebrate retina. <i>E-Neuroforum</i> , 2012, 18, .	0.2	1

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73	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
74	Wie die Netzhaut die Richtung von Bewegungen berechnet. <i>E-Neuroforum</i> , 2012, 18, 234-245.	0.2	0
75	Neuronale Vielfalt in der Netzhaut. <i>E-Neuroforum</i> , 2017, 23, 114-123.	0.2	0
76	Retinal Circuits for Seeing in the Dark. <i>Neuron</i> , 2019, 104, 435-437.	3.8	0
77	Richard H. Masland (1942â€“2019). <i>Neuron</i> , 2020, 105, 411-412.	3.8	0
78	Mouse dLGN Receives Input from a Diverse Population of Retinal Ganglion Cells with Limited Functional Convergence. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0