

Thomas Euler

List of Publications by Year in descending order

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Version: 2024-02-01

78
papers

7,559
citations

87888

38
h-index

85541

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.	6.3	15
2	Non-telecentric two-photon microscopy for 3D random access mesoscale imaging. <i>Nature Communications</i> , 2022, 13, 544.	12.8	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.	3.9	11
4	Estimating smooth and sparse neural receptive fields with a flexible spline basis. <i>Neurons, Behavior, Data Analysis, and Theory</i> , 2021, 5, .	1.2	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.	3.9	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.	1.6	22
7	Understanding the retinal basis of vision across species. <i>Nature Reviews Neuroscience</i> , 2020, 21, 5-20.	10.2	191
8	Neural circuits in the mouse retina support color vision in the upper visual field. <i>Nature Communications</i> , 2020, 11, 3481.	12.8	70
9	Type-specific dendritic integration in mouse retinal ganglion cells. <i>Nature Communications</i> , 2020, 11, 2101.	12.8	30
10	The temporal structure of the inner retina at a single glance. <i>Scientific Reports</i> , 2020, 10, 4399.	3.3	14
11	Richard H. Masland (1942–2019). <i>Neuron</i> , 2020, 105, 411-412.	8.1	0
12	Bayesian inference for biophysical neuron models enables stimulus optimization for retinal neuroprosthetics. <i>ELife</i> , 2020, 9, .	6.0	19
13	Studying a Light Sensor with Light: Multiphoton Imaging in the Retina. <i>Neuromethods</i> , 2019, , 225-250.	0.3	25
14	Retinal Circuits for Seeing in the Dark. <i>Neuron</i> , 2019, 104, 435-437.	8.1	0
15	Bayesian hypothesis testing and experimental design for two-photon imaging data. <i>PLoS Computational Biology</i> , 2019, 15, e1007205.	3.2	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.	8.1	52
17	Function first: classifying cell types and circuits of the retina. <i>Current Opinion in Neurobiology</i> , 2019, 56, 8-15.	4.2	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.	3.6	44

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19	An arbitrary-spectrum spatial visual stimulator for vision research. <i>ELife</i> , 2019, 8, .	6.0	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.	7.1	90
21	Spikeling: A low-cost hardware implementation of a spiking neuron for neuroscience teaching and outreach. <i>PLoS Biology</i> , 2018, 16, e2006760.	5.6	4
22	Community-based benchmarking improves spike rate inference from two-photon calcium imaging data. <i>PLoS Computational Biology</i> , 2018, 14, e1006157.	3.2	118
23	Connectomics of synaptic microcircuits: lessons from the outer retina. <i>Journal of Physiology</i> , 2017, 595, 5517-5524.	2.9	6
24	Inhibition decorrelates visual feature representations in the inner retina. <i>Nature</i> , 2017, 542, 439-444.	27.8	225
25	Neuronal Diversity In The Retina. <i>E-Neuroforum</i> , 2017, 23, 93-101.	0.1	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.	2.9	67
27	Local Signals in Mouse Horizontal Cell Dendrites. <i>Current Biology</i> , 2017, 27, 3603-3615.e5.	3.9	20
28	Neuronale Vielfalt in der Netzhaut. <i>E-Neuroforum</i> , 2017, 23, 114-123.	0.1	0
29	Connectivity map of bipolar cells and photoreceptors in the mouse retina. <i>ELife</i> , 2016, 5, .	6.0	138
30	Calcium dynamics change in degenerating cone photoreceptors. <i>Human Molecular Genetics</i> , 2016, 25, 3729-3740.	2.9	28
31	Benchmarking Spike Rate Inference in Population Calcium Imaging. <i>Neuron</i> , 2016, 90, 471-482.	8.1	154
32	Retinal Physiology: Non-Bipolar-Cell Excitatory Drive in the Inner Retina. <i>Current Biology</i> , 2016, 26, R706-R708.	3.9	2
33	Species-specific motion detectors. <i>Nature</i> , 2016, 535, 45-46.	27.8	13
34	The functional diversity of retinal ganglion cells in the mouse. <i>Nature</i> , 2016, 529, 345-350.	27.8	788
35	Imaging Ca^{2+} Dynamics in Cone Photoreceptor Axon Terminals of the Mouse Retina. <i>Journal of Visualized Experiments</i> , 2015, , e52588.	0.3	9
36	Multiple Independent Oscillatory Networks in the Degenerating Retina. <i>Frontiers in Cellular Neuroscience</i> , 2015, 9, 444.	3.7	33

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37	Open Labware: 3-D Printing Your Own Lab Equipment. PLoS Biology, 2015, 13, e1002086.	5.6	239
38	Identification of a Common Non-Apoptotic Cell Death Mechanism in Hereditary Retinal Degeneration. PLoS ONE, 2014, 9, e112142.	2.5	191
39	Synaptic remodeling generates synchronous oscillations in the degenerated outer mouse retina. Frontiers in Neural Circuits, 2014, 8, 108.	2.8	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.	3.6	52
41	Retinal bipolar cells: elementary building blocks of vision. Nature Reviews Neuroscience, 2014, 15, 507-519.	10.2	374
42	Spikes and ribbon synapses in early vision. Trends in Neurosciences, 2013, 36, 480-488.	8.6	56
43	Early Vision: Where (Some of) the Magic Happens. Current Biology, 2013, 23, R1096-R1098.	3.9	8
44	Spikes in Mammalian Bipolar Cells Support Temporal Layering of the Inner Retina. Current Biology, 2013, 23, 48-52.	3.9	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.	8.1	162
46	OFF bipolar cells express distinct types of dendritic glutamate receptors in the mouse retina. Neuroscience, 2013, 243, 136-148.	2.3	54
47	Developmental Regulation and Activity-Dependent Maintenance of GABAergic Presynaptic Inhibition onto Rod Bipolar Cell Axonal Terminals. Neuron, 2013, 78, 124-137.	8.1	25
48	Chromatic Coding from Cone-type Unselective Circuits in the Mouse Retina. Neuron, 2013, 77, 559-571.	8.1	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.	3.6	28
50	Light-Driven Calcium Signals in Mouse Cone Photoreceptors. Journal of Neuroscience, 2012, 32, 6981-6994.	3.6	35
51	Computation of motion direction in the vertebrate retina. E-Neuroforum, 2012, 18, .	0.1	1
52	Wie die Netzhaut die Richtung von Bewegungen berechnet. E-Neuroforum, 2012, 18, 234-245.	0.1	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.	2.5	22
54	Seeing Things in Motion: Models, Circuits, and Mechanisms. Neuron, 2011, 71, 974-994.	8.1	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.	1.8	61
56	Chromatic Bipolar Cell Pathways in the Mouse Retina. <i>Journal of Neuroscience</i> , 2011, 31, 6504-6517.	3.6	115
57	Retinal Processing: Global Players Like It Local. <i>Current Biology</i> , 2010, 20, R486-R488.	3.9	6
58	Dendritic Calcium Signaling in ON and OFF Mouse Retinal Ganglion Cells. <i>Journal of Neuroscience</i> , 2010, 30, 7127-7138.	3.6	51
59	Eyecup scopeâ€™optical recordings of light stimulus-evoked fluorescence signals in the retina. <i>Pflugers Archiv European Journal of Physiology</i> , 2009, 457, 1393-1414.	2.8	149
60	A novel type of interplexiform amacrine cell in the mouse retina. <i>European Journal of Neuroscience</i> , 2009, 30, 217-228.	2.6	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.	3.6	202
64	A Dendrite-Autonomous Mechanism for Direction Selectivity in Retinal Starburst Amacrine Cells. <i>PLoS Biology</i> , 2007, 5, e185.	5.6	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.	8.1	154
66	The Primordial, Blue-Cone Color System of the Mouse Retina. <i>Journal of Neuroscience</i> , 2005, 25, 5438-5445.	3.6	256
67	Direction-Selective Dendritic Action Potentials in Rabbit Retina. <i>Neuron</i> , 2005, 47, 739-750.	8.1	158
68	Functional Fluorescent Ca ²⁺ Indicator Proteins in Transgenic Mice under TET Control. <i>PLoS Biology</i> , 2004, 2, e163.	5.6	216
69	G protein subunit G ^{Î³13} is coexpressed with G ^{Î±o} , G ^{Î²3} , and G ^{Î²4} in retinal ON bipolar cells. <i>Journal of Comparative Neurology</i> , 2003, 455, 1-10.	1.6	114
70	Directionally selective calcium signals in dendrites of starburst amacrine cells. <i>Nature</i> , 2002, 418, 845-852.	27.8	533
71	Dendritic processing. <i>Current Opinion in Neurobiology</i> , 2001, 11, 415-422.	4.2	57
72	Light-Evoked Responses of Bipolar Cells in a Mammalian Retina. <i>Journal of Neurophysiology</i> , 2000, 83, 1817-1829.	1.8	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.	7.1	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.	1.8	153
75	Glutamate Responses of Bipolar Cells in a Slice Preparation of the Rat Retina. Journal of Neuroscience, 1996, 16, 2934-2944.	3.6	191
76	Immunocytochemical identification of cone bipolar cells in the rat retina. Journal of Comparative Neurology, 1995, 361, 461-478.	1.6	327
77	Co-stratification of GABA _A receptors with the directionally selective circuitry of the rat retina. Visual Neuroscience, 1995, 12, 345-358.	1.0	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