

Thomas A MÃ¼nch

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

2,148
citations

623734

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docs citations

33
times ranked

2232
citing authors

#	ARTICLE	IF	CITATIONS
1	Light-activated channels targeted to ON bipolar cells restore visual function in retinal degeneration. <i>Nature Neuroscience</i> , 2008, 11, 667-675.	14.8	522
2	Mechanisms and circuitry underlying directional selectivity in the retina. <i>Nature</i> , 2002, 420, 411-414.	27.8	338
3	Approach sensitivity in the retina processed by a multifunctional neural circuit. <i>Nature Neuroscience</i> , 2009, 12, 1308-1316.	14.8	290
4	Directional Selectivity Is Formed at Multiple Levels by Laterally Offset Inhibition in the Rabbit Retina. <i>Neuron</i> , 2005, 46, 117-127.	8.1	126
5	Retinal output changes qualitatively with every change in ambient illuminance. <i>Nature Neuroscience</i> , 2015, 18, 66-74.	14.8	112
6	Neuropeptides regulate swimming depth of <i>Platynereis</i> larvae. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, E1174-83.	7.1	109
7	Rods progressively escape saturation to drive visual responses in daylight conditions. <i>Nature Communications</i> , 2017, 8, 1813.	12.8	99
8	The retina of <i>Manduca sexta</i> : rhodopsin expression, the mosaic of green-, blue- and UV-sensitive photoreceptors, and regional specialization. <i>Journal of Experimental Biology</i> , 2003, 206, 3337-3348.	1.7	92
9	Relevance of Exocytotic Glutamate Release from Retinal Glia. <i>Neuron</i> , 2012, 74, 504-516.	8.1	69
10	Characterization of a Mouse Model With Complete RPE Loss and Its Use for RPE Cell Transplantation. , 2014, 55, 5431.		54
11	Step-By-Step Instructions for Retina Recordings with Perforated Multi Electrode Arrays. <i>PLoS ONE</i> , 2014, 9, e106148.	2.5	54
12	Perceptual saccadic suppression starts in the retina. <i>Nature Communications</i> , 2020, 11, 1977.	12.8	53
13	Characterizing visual performance in mice: An objective and automated system based on the optokinetic reflex.. <i>Behavioral Neuroscience</i> , 2013, 127, 788-796.	1.2	44
14	Alteration of the microsaccadic velocity-amplitude main sequence relationship after visual transients: implications for models of saccade control. <i>Journal of Neurophysiology</i> , 2017, 117, 1894-1910.	1.8	43
15	Symmetric Interactions Within a Homogeneous Starburst Cell Network Can Lead to Robust Asymmetries in Dendrites of Starburst Amacrine Cells. <i>Journal of Neurophysiology</i> , 2006, 96, 471-477.	1.8	40
16	Visual properties of human retinal ganglion cells. <i>PLoS ONE</i> , 2021, 16, e0246952.	2.5	21
17	Influence of <i>Opa1</i> Mutation on Survival and Function of Retinal Ganglion Cells. , 2015, 56, 4835.		19
18	Hypothermia Promotes Survival of Ischemic Retinal Ganglion Cells. , 2016, 57, 658.		19

#	ARTICLE	IF	CITATIONS
19	The contrast sensitivity function of a small cryptobenthic marine fish. <i>Journal of Vision</i> , 2019, 19, 1.	0.3	10
20	Dependence of perceptual saccadic suppression on peri-saccadic image flow properties and luminance contrast polarity. <i>Journal of Vision</i> , 2021, 21, 15.	0.3	7
21	Salvaging Ruins: Reverting Blind Retinas into Functional Visual Sensors. <i>Methods in Molecular Biology</i> , 2014, 1148, 149-160.	0.9	7
22	Strategies for Expanding the Operational Range of Channelrhodopsin in Optogenetic Vision. <i>PLoS ONE</i> , 2013, 8, e81278.	2.5	4
23	Effects of the jimpy mutation on mouse retinal structure and function. <i>Journal of Comparative Neurology</i> , 2015, 523, 2788-2806.	1.6	4
24	Visual Behavior: Mice Run from Overhead Danger. <i>Current Biology</i> , 2013, 23, R925-R927.	3.9	3
25	Suppression without inhibition: how retinal computation contributes to saccadic suppression. <i>Communications Biology</i> , 2022, 5, .	4.4	3
26	Optogenetik als mögliche Therapie bei degenerativen Netzhauterkrankungen. <i>Medizinische Genetik</i> , 2017, 29, 239-247.	0.2	1
27	Selective peri-saccadic suppression of low spatial frequencies is a visual phenomenon. <i>Journal of Vision</i> , 2019, 19, 253.	0.3	0