Daniel Kerschensteiner

List of Publications by Year
in descending order

38 papers	1,686 citations	304743 22 h-index	361022 35 g-index
44 all docs	44 docs citations	44 times ranked	1636 citing authors

#	Article	IF	Citations
1	The spatial structure of a nonlinear receptive field. Nature Neuroscience, 2012, 15, 1572-1580.	14.8	198
2	Neurotransmission selectively regulates synapse formation in parallel circuits in vivo. Nature, 2009, 460, 1016-1020.	27.8	164
3	Elevating Growth Factor Responsiveness and Axon Regeneration by Modulating Presynaptic Inputs. Neuron, 2019, 103, 39-51.e5.	8.1	89
4	Homeostatic plasticity in neural development. Neural Development, 2018, 13, 9.	2.4	83
5	An excitatory amacrine cell detects object motion and provides feature-selective input to ganglion cells in the mouse retina. ELife, 2015, 4, .	6.0	83
6	Development of Cell Type-Specific Connectivity Patterns of Converging Excitatory Axons in the Retina. Neuron, 2011, 71, 1014-1021.	8.1	77
7	Dendritic mitochondria reach stable positions during circuit development. ELife, 2016, 5, e11583.	6.0	74
8	NGL-2 Regulates Pathway-Specific Neurite Growth and Lamination, Synapse Formation, and Signal Transmission in the Retina. Journal of Neuroscience, 2013, 33, 11949-11959.	3.6	73
9	Organization of the dorsal lateral geniculate nucleus in the mouse. Visual Neuroscience, 2017, 34, E008.	1.0	67
10	Genetically Identified Suppressed-by-Contrast Retinal Ganglion Cells Reliably Signal Self-Generated Visual Stimuli. Journal of Neuroscience, 2015, 35, 10815-10820.	3.6	61
11	Target-Specific Glycinergic Transmission from VGluT3-Expressing Amacrine Cells Shapes Suppressive Contrast Responses in the Retina. Cell Reports, 2016, 15, 1369-1375.	6.4	60
12	Cell-type-specific binocular vision guides predation in mice. Neuron, 2021, 109, 1527-1539.e4.	8.1	59
13	Spontaneous Network Activity and Synaptic Development. Neuroscientist, 2014, 20, 272-290.	3.5	57
14	Intersecting Circuits Generate Precisely Patterned Retinal Waves. Neuron, 2013, 79, 322-334.	8.1	48
15	Homeostatic Plasticity Shapes Cell-Type-Specific Wiring in the Retina. Neuron, 2017, 94, 656-665.e4.	8.1	44
16	Ambient illumination switches contrast preference of specific retinal processing streams. Journal of Neurophysiology, 2015, 114, 540-550.	1.8	38
17	A Pixel-Encoder Retinal Ganglion Cell with Spatially Offset Excitatory and Inhibitory Receptive Fields. Cell Reports, 2018, 22, 1462-1472.	6.4	38
18	Efficient Coding by Midget and Parasol Ganglion Cells in the Human Retina. Neuron, 2020, 107, 656-666.e5.	8.1	37

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19	Integrated photoacoustic, confocal, and two-photon microscope. Journal of Biomedical Optics, 2014, 19, 036002.	2.6	36
20	Genetic Control of Circuit Function:Vsx1andIrx5Transcription Factors Regulate Contrast Adaptation in the Mouse Retina. Journal of Neuroscience, 2008, 28, 2342-2352.	3.6	35
21	Feature Detection by Retinal Ganglion Cells. Annual Review of Vision Science, 2022, 8, 135-169.	4.4	32
22	Inhibitory Control of Feature Selectivity in an Object Motion Sensitive Circuit of the Retina. Cell Reports, 2017, 19, 1343-1350.	6.4	31
23	Dendritic and parallel processing of visual threats in the retina control defensive responses. Science Advances, 2020, 6, .	10.3	30
24	Homeostatic Plasticity Shapes the Retinal Response to Photoreceptor Degeneration. Current Biology, 2020, 30, 1916-1926.e3.	3.9	30
25	Morphology and function of three VIP-expressing amacrine cell types in the mouse retina. Journal of Neurophysiology, 2015, 114, 2431-2438.	1.8	24
26	Homeostatic plasticity shapes the visual systemâ€™s first synapse. Nature Communications, 2017, 8, 1220.	12.8	24
27	Local processing in neurites of VGluT3-expressing amacrine cells differentially organizes visual information. ELife, 2017, 6, .	6.0	23
28	Synapse maintenance and restoration in the retina by NGL2. ELife, 2018, 7, .	6.0	23
29	Retrograde Plasticity and Differential Competition of Bipolar Cell Dendrites and Axons in the Developing Retina. Current Biology, 2014, 24, 2301-2306.	3.9	21
30	AMIGO2 Scales Dendrite Arbors in the Retina. Cell Reports, 2019, 29, 1568-1578.e4.	6.4	16
31	Parallel Processing of Negative Feedback: E Unum Pluribus. Neuron, 2018, 99, 5-7.	8.1	2
32	An Allosteric Regulator of R7-RGS Proteins Influences Light-Evoked Activity and Glutamatergic Waves in the Inner Retina. PLoS ONE, 2013, 8, e82276.	2.5	2
33	Mammalian Retina Development. , 2020, , 234-251.		2
34	AMIGO1 Promotes Axon Growth and Territory Matching in the Retina. Journal of Neuroscience, 2022, 42, 2678-2689.	3.6	2
35	Circuit Assembly: The Repulsive Side of Lamination. Current Biology, 2011, 21, R163-R166.	3.9	1
36	Aligning a Synapse. Neuron, 2017, 93, 1241-1243.	8.1	1

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37	Visual thalamus, â€œitâ€™s complicatedâ€• Visual Neuroscience, 2017, 34, E018.	1.0	1
38	Superior Colliculus Does Play Dice. Neuron, 2015, 87, 1121-1123.	8.1	0