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List of Publications by Year
in descending order

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41 papers	10,289 citations	136950 32 h-index	276875 41 g-index
62 all docs	62 docs citations	62 times ranked	8132 citing authors

#	Article	IF	Citations
1	Reconstruction of neocortex: Organelles, compartments, cells, circuits, and activity. Cell, 2022, 185, 1082-1100.e24.	28.9	84
2	A hybrid open-top light-sheet microscope for versatile multi-scale imaging of cleared tissues. Nature Methods, 2022, 19, 613-619.	19.0	54
3	Relationship between simultaneously recorded spiking activity and fluorescence signal in GCaMP6 transgenic mice. ELife, 2021, 10, .	6.0	114
4	Chromatic micromaps in primary visual cortex. Nature Communications, 2021, 12, 2315.	12.8	14
5	Survey of spiking in the mouse visual system reveals functional hierarchy. Nature, 2021, 592, 86-92.	27.8	284
6	Laminar distribution and arbor density of two functional classes of thalamic inputs to primary visual cortex. Cell Reports, 2021, 37, 109826.	6.4	6
7	Structure and function of axo-axonic inhibition. ELife, 2021, 10, .	6.0	49
8	A large-scale standardized physiological survey reveals functional organization of the mouse visual cortex. Nature Neuroscience, 2020, 23, 138-151.	14.8	232
9	A petascale automated imaging pipeline for mapping neuronal circuits with high-throughput transmission electron microscopy. Nature Communications, 2020, 11, 4949.	12.8	85
10	VIP interneurons in mouse primary visual cortex selectively enhance responses to weak but specific stimuli. ELife, 2020, 9, .	6.0	49
11	Capillary-Based and Stokes-Based Trapping of Serial Sections for Scalable 3D-EM Connectomics. ENeuro, 2020, 7, ENEURO.0328-19.2019.	1.9	1
12	Visual physiology of the layer 4 cortical circuit in silico. PLoS Computational Biology, 2018, 14, e1006535.	3.2	75
13	Large-scale neuroanatomy using LASSO: Loop-based Automated Serial Sectioning Operation. PLoS ONE, 2018, 13, e0206172.	2.5	12
14	Mouse color and wavelength-specific luminance contrast sensitivity are non-uniform across visual space. ELife, 2018, 7, .	6.0	68
15	Transport and trapping of nanosheets via hydrodynamic forces and curvature-induced capillary quadrupolar interactions. Journal of Colloid and Interface Science, 2018, 531, 352-359.	9.4	3
16	Spatial Organization of Chromatic Pathways in the Mouse Dorsal Lateral Geniculate Nucleus. Journal of Neuroscience, 2017, 37, 1102-1116.	3.6	45
17	A Comparison of Visual Response Properties in the Lateral Geniculate Nucleus and Primary Visual Cortex of Awake and Anesthetized Mice. Journal of Neuroscience, 2016, 36, 12144-12156.	3.6	134
18	Anatomy and function of an excitatory network in the visual cortex. Nature, 2016, 532, 370-374.	27.8	447

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19	Reel-to-Reel Electron Microscopy: Latency-Free Continuous Imaging of Large Sample Volumes. Microscopy and Microanalysis, 2015, 21, 157-158.	0.4	4
20	Transgenic Mice for Intersectional Targeting of Neural Sensors and Effectors with High Specificity and Performance. Neuron, 2015, 85, 942-958.	8.1	992
21	A mouse model of higher visual cortical function. Current Opinion in Neurobiology, 2014, 24, 28-33.	4.2	71
22	Removable cranial windows for long-term imaging in awake mice. Nature Protocols, 2014, 9, 2515-2538.	12.0	336
23	Cortico-cortical projections in mouse visual cortex are functionally target specific. Nature Neuroscience, 2013, 16, 219-226.	14.8	284
24	From Functional Architecture to Functional Connectomics. Neuron, 2012, 75, 209-217.	8.1	64
25	Observatories of the mind. Nature, 2012, 483, 397-398.	27.8	86
26	Local Diversity and Fine-Scale Organization of Receptive Fields in Mouse Visual Cortex. Journal of Neuroscience, 2011, 31, 18506-18521.	3.6	229
27	Functional Specialization of Mouse Higher Visual Cortical Areas. Neuron, 2011, 72, 1025-1039.	8.1	378
28	Network anatomy and in vivo physiology of visual cortical neurons. Nature, 2011, 471, 177-182.	27.8	797
29	Broadly Tuned Response Properties of Diverse Inhibitory Neuron Subtypes in Mouse Visual Cortex. Neuron, 2010, 67, 858-871.	8.1	549
30	Specificity and randomness in the visual cortex. Current Opinion in Neurobiology, 2007, 17, 401-407.	4.2	111
31	Functional imaging with cellular resolution reveals precise micro-architecture in visual cortex. Nature, 2005, 433, 597-603.	27.8	1,060
32	Diverse receptive fields in the lateral geniculate nucleus during thalamocortical development. Nature Neuroscience, 2000, 3, 608-616.	14.8	103
33	Visual physiology of the lateral geniculate nucleus in two species of New World monkey: Saimiri sciureus and Aotus trivirgatis. Journal of Physiology, 2000, 523, 755-769.	2.9	66
34	Temporal Coding of Visual Information in the Thalamus. Journal of Neuroscience, 2000, 20, 5392-5400.	3.6	404
35	The Koniocellular Pathway in Primate Vision. Annual Review of Neuroscience, 2000, 23, 127-153.	10.7	492
36	Specificity and Strength of Retinogeniculate Connections. Journal of Neurophysiology, 1999, 82, 3527-3540.	1.8	216

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37	SYNCHRONOUS ACTIVITY IN THE VISUAL SYSTEM. Annual Review of Physiology, 1999, 61, 435-456.	13.1	320
38	Coding of visual information by precisely correlated spikes in the lateral geniculate nucleus. Nature Neuroscience, 1998, 1, 501-507.	14.8	220
39	Paired-spike interactions and synaptic efficacy of retinal inputs to the thalamus. Nature, 1998, 395, 384-387.	27.8	204
40	Precisely correlated firing in cells of the lateral geniculate nucleus. Nature, 1996, 383, 815-819.	27.8	437
41	Specificity of monosynaptic connections from thalamus to visual cortex. Nature, 1995, 378, 281-284.	27.8	640