W Martin Usrey

List of Publications by Year
in descending order

58 papers	6,347 citations	147726 31 h-index	149623 56 g-index
67 all docs	67 docs citations	67 times ranked	5094 citing authors

#	Article	IF	Citations
1	Contextual Modulation of Feedforward Inputs to Primary Visual Cortex. Frontiers in Systems Neuroscience, 2022, 16, 818633.	1.2	1
2	Stimulus Contrast Affects Spatial Integration in the Lateral Geniculate Nucleus of Macaque Monkeys. Journal of Neuroscience, 2021, 41, 6246-6256.	1.7	7
3	Cortical control of behavior and attention from an evolutionary perspective. Neuron, 2021, 109, 3048-3054.	3.8	20
4	Eye to Brain: Parallel Visual Pathways. , 2020, , 362-368.		0
5	The Augmentation of Retinogeniculate Communication during Thalamic Burst Mode. Journal of Neuroscience, 2019, 39, 5697-5710.	1.7	23
6	Attention Enhances the Efficacy of Communication in V1 Local Circuits. Journal of Neuroscience, 2019, 39, 1066-1076.	1.7	22
7	Corticofugal circuits: Communication lines from the cortex to the rest of the brain. Journal of Comparative Neurology, 2019, 527, 640-650.	0.9	90
8	Contrast gain control and retinogeniculate communication. European Journal of Neuroscience, 2019, 49, 1061-1068.	1.2	11
9	Retinal and Nonretinal Contributions to Extraclassical Surround Suppression in the Lateral Geniculate Nucleus. Journal of Neuroscience, 2017, 37, 226-235.	1.7	27
10	Orientation Tuning of Correlated Activity in the Developing Lateral Geniculate Nucleus. Journal of Neuroscience, 2017, 37, 11549-11558.	1.7	4
11	Retinal and Nonretinal Contributions to Extraclassical Surround Suppression in the Lateral Geniculate Nucleus. Journal of Neuroscience, 2017, 37, 226-235.	1.7	3
12	Stimulus Contrast and Retinogeniculate Signal Processing. Frontiers in Neural Circuits, 2016, 10, 8.	1.4	23
13	Morphological Substrates for Parallel Streams of Corticogeniculate Feedback Originating in Both V1 and V2 of the Macaque Monkey. Neuron, 2016, 90, 388-399.	3.8	52
14	Visual Functions of the Thalamus. Annual Review of Vision Science, 2015, 1, 351-371.	2.3	86
15	Surround suppression and temporal processing of visual signals. Journal of Neurophysiology, 2015, 113, 2605-2617.	0.9	17
16	Dissecting the Dynamics of Corticothalamic Feedback. Neuron, 2015, 86, 605-607.	3.8	12
17	Spatiotemporal flow of information in the early visual pathway. European Journal of Neuroscience, 2014, 39, 593-601.	1.2	7
18	Simultaneous Recordings from the Primary Visual Cortex and Lateral Geniculate Nucleus Reveal Rhythmic Interactions and a Cortical Source for Gamma-Band Oscillations. Journal of Neuroscience, 2014, 34, 7639-7644.	1.7	102

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19	Attention enhances synaptic efficacy and the signal-to-noise ratio in neural circuits. Nature, 2013, 499, 476-480.	13.7	158
20	Canonical Microcircuits for Predictive Coding. Neuron, 2012, 76, 695-711.	3.8	1,876
21	Rapid Plasticity of Visual Responses in the Adult Lateral Geniculate Nucleus. Neuron, 2011, 71, 812-819.	3.8	30
22	A comparison of visual responses in the lateral geniculate nucleus of alert and anaesthetized macaque monkeys. Journal of Physiology, 2011, 589, 87-99.	1.3	60
23	Corticogeniculate feedback and visual processing in the primate. Journal of Physiology, 2011, 589, 33-40.	1.3	112
24	Distinct Mechanisms for Size Tuning in Primate Visual Cortex. Journal of Neuroscience, 2011, 31, 12644-12649.	1.7	9
25	Preparatory Effects of Distractor Suppression: Evidence from Visual Cortex. PLoS ONE, 2011, 6, e27700.	1.1	20
26	Spike Timing and Information Transmission at Retinogeniculate Synapses. Journal of Neuroscience, 2010, 30, 13558-13566.	1.7	64
27	Retinal oscillations carry visual information to cortex. Frontiers in Systems Neuroscience, 2009, 3, 4.	1.2	72
28	Modulation of gamma-band activity across local cortical circuits. Frontiers in Integrative Neuroscience, 2009, 3, 15.	1.0	6
29	Parallel Processing in the Corticogeniculate Pathway of the Macaque Monkey. Neuron, 2009, 62, 135-146.	3.8	101
30	Emerging views of corticothalamic function. Current Opinion in Neurobiology, 2008, 18, 403-407.	2.0	207
31	Origin and Dynamics of Extraclassical Suppression in the Lateral Geniculate Nucleus of the Macaque Monkey. Neuron, 2008, 57, 135-146.	3.8	126
32	A Fast, Reciprocal Pathway between the Lateral Geniculate Nucleus and Visual Cortex in the Macaque Monkey. Journal of Neuroscience, 2007, 27, 5431-5436.	1.7	115
33	Cortical activity influences geniculocortical spike efficacy in the macaque monkey. Frontiers in Integrative Neuroscience, 2007, 1, 3.	1.0	7
34	Interspike Interval Analysis of Retinal Ganglion Cell Receptive Fields. Journal of Neurophysiology, 2007, 98, 911-919.	0.9	22
35	Orientation Tuning, But Not Direction Selectivity, Is Invariant to Temporal Frequency in Primary Visual Cortex. Journal of Neurophysiology, 2005, 94, 1336-1345.	0.9	36
36	Dynamic properties of thalamic neurons for vision. Progress in Brain Research, 2005, 149, 83-90.	0.9	17

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37	Distinct Properties of Stimulus-Evoked Bursts in the Lateral Geniculate Nucleus. Journal of Neuroscience, 2005, 25, 514-523.	1.7	71
38	Temporal properties of feedforward and feedback pathways between the thalamus and visual cortex in the ferret. Thalamus & Related Systems, 2005, 3, 133.	0.5	30
39	Influence of Contrast on Orientation and Temporal Frequency Tuning in Ferret Primary Visual Cortex. Journal of Neurophysiology, 2004, 91, 2797-2808.	0.9	113
40	A shrewd insight for vision. Nature Neuroscience, 2004, 7, 796-797.	7.1	1
41	Corticothalamic feedback and sensory processing. Current Opinion in Neurobiology, 2003, 13, 440-445.	2.0	159
42	Depressed from deprivation? Look to the molecules.... Nature Neuroscience, 2003, 6, 787-788.	7.1	2
43	Receptive Fields and Response Properties of Neurons in Layer 4 of Ferret Visual Cortex. Journal of Neurophysiology, 2003, 89, 1003-1015.	0.9	56
44	Spike timing and visual processing in the retinogeniculocortical pathway. Philosophical Transactions of the Royal Society B: Biological Sciences, 2002, 357, 1729-1737.	1.8	24
45	Saccadic Eye Movements Modulate Visual Responses in the Lateral Geniculate Nucleus. Neuron, 2002, 35, 961-974.	3.8	187
46	Integration of Thalamic Inputs to Cat Primary Visual Cortex. , 2002, , 319-342.		4
47	The role of spike timing for thalamocortical processing. Current Opinion in Neurobiology, 2002, 12, 411-417.	2.0	40
48	AMPA autoreceptors fill the gap in olfactory temporal coding. Nature Neuroscience, 2002, 5, 1108-1109.	7.1	2
49	Rules of Connectivity between Geniculate Cells and Simple Cells in Cat Primary Visual Cortex. Journal of Neuroscience, 2001, 21, 4002-4015.	1.7	304
50	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.	1.3	66
51	Synaptic Interactions between Thalamic Inputs to Simple Cells in Cat Visual Cortex. Journal of Neuroscience, 2000, 20, 5461-5467.	1.7	203
52	Specificity and Strength of Retinogeniculate Connections. Journal of Neurophysiology, 1999, 82, 3527-3540.	0.9	216
53	SYNCHRONOUS ACTIVITY IN THE VISUAL SYSTEM. Annual Review of Physiology, 1999, 61, 435-456.	5.6	320
54	Coding of visual information by precisely correlated spikes in the lateral geniculate nucleus. Nature Neuroscience, 1998, 1, 501-507.	7.1	220

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55	Paired-spike interactions and synaptic efficacy of retinal inputs to the thalamus. Nature, 1998, 395, 384-387.	13.7	204
56	Precisely correlated firing in cells of the lateral geniculate nucleus. Nature, 1996, 383, 815-819.	13.7	437
57	The sublaminar organization of corticogeniculate neurons in layer 6 of macaque striate cortex. Visual Neuroscience, 1994, 11, 307-315.	0.5	108
58	Lateral geniculate projections to the superficial layers of visual cortex in the tree shrew. Journal of Comparative Neurology, 1992, 319, 159-171.	0.9	35