

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

97 papers	12,252 citations	54 h-index	107 g-index
107 ext. papers	14,984 ext. citations	17.4 avg, IF	6.77 L-index

#	Paper	IF	Citations
97	Spike timing-dependent plasticity: a Hebbian learning rule. <i>Annual Review of Neuroscience</i> , 2008 , 31, 25-46	17	1052
96	Spike timing-dependent plasticity of neural circuits. <i>Neuron</i> , 2004 , 44, 23-30	13.9	685
95	Spike-timing-dependent synaptic modification induced by natural spike trains. <i>Nature</i> , 2002 , 416, 433-8	50.4	589
94	Spike timing-dependent plasticity: from synapse to perception. <i>Physiological Reviews</i> , 2006 , 86, 1033-48	47.9	495
93	Selective attention. Long-range and local circuits for top-down modulation of visual cortex processing. <i>Science</i> , 2014 , 345, 660-5	33.3	465
92	Do we know what the early visual system does?. <i>Journal of Neuroscience</i> , 2005 , 25, 10577-97	6.6	434
91	Removing brakes on adult brain plasticity: from molecular to behavioral interventions. <i>Journal of Neuroscience</i> , 2010 , 30, 14964-71	6.6	414
90	Activation of specific interneurons improves V1 feature selectivity and visual perception. <i>Nature</i> , 2012 , 488, 379-83	50.4	405
89	Basal forebrain activation enhances cortical coding of natural scenes. <i>Nature Neuroscience</i> , 2009 , 12, 1444-9	25.5	405
88	Neuromodulation of brain states. <i>Neuron</i> , 2012 , 76, 209-22	13.9	361
87	Fast modulation of visual perception by basal forebrain cholinergic neurons. <i>Nature Neuroscience</i> , 2013 , 16, 1857-1863	25.5	337
86	Efficient coding of natural scenes in the lateral geniculate nucleus: experimental test of a computational theory. <i>Journal of Neuroscience</i> , 1996 , 16, 3351-62	6.6	323
85	Spike-timing-dependent synaptic plasticity depends on dendritic location. <i>Nature</i> , 2005 , 434, 221-5	50.4	296
84	Basal forebrain circuit for sleep-wake control. <i>Nature Neuroscience</i> , 2015 , 18, 1641-7	25.5	257
83	Reconstruction of natural scenes from ensemble responses in the lateral geniculate nucleus. <i>Journal of Neuroscience</i> , 1999 , 19, 8036-42	6.6	243
82	Circuit-based interrogation of sleep control. <i>Nature</i> , 2016 , 538, 51-59	50.4	199
81	What is memory? The present state of the engram. <i>BMC Biology</i> , 2016 , 14, 40	7.3	197

80	A natural approach to studying vision. <i>Nature Neuroscience</i> , 2005 , 8, 1643-6	25.5	191
79	Burst spiking of a single cortical neuron modifies global brain state. <i>Science</i> , 2009 , 324, 643-6	33.3	188
78	Stimulus timing-dependent plasticity in cortical processing of orientation. <i>Neuron</i> , 2001 , 32, 315-23	13.9	188
77	Cell-Type-Specific Activity in Prefrontal Cortex during Goal-Directed Behavior. <i>Neuron</i> , 2015 , 87, 437-50	13.9	186
76	Reverberation of recent visual experience in spontaneous cortical waves. <i>Neuron</i> , 2008 , 60, 321-7	13.9	183
75	Control of REM sleep by ventral medulla GABAergic neurons. <i>Nature</i> , 2015 , 526, 435-8	50.4	168
74	Clonally related visual cortical neurons show similar stimulus feature selectivity. <i>Nature</i> , 2012 , 486, 118-21	50.4	166
73	Identification of preoptic sleep neurons using retrograde labelling and gene profiling. <i>Nature</i> , 2017 , 545, 477-481	50.4	163
72	Contribution of individual spikes in burst-induced long-term synaptic modification. <i>Journal of Neurophysiology</i> , 2006 , 95, 1620-9	3.2	148
71	Experience-dependent plasticity in adult visual cortex. <i>Neuron</i> , 2006 , 52, 577-85	13.9	145
70	Spatial structure of complex cell receptive fields measured with natural images. <i>Neuron</i> , 2005 , 45, 781-91	13.9	144
69	LiGluR restores visual responses in rodent models of inherited blindness. <i>Molecular Therapy</i> , 2011 , 19, 1212-9	11.7	140
68	Isolation of relevant visual features from random stimuli for cortical complex cells. <i>Journal of Neuroscience</i> , 2002 , 22, 10811-8	6.6	134
67	Receptive-field modification in rat visual cortex induced by paired visual stimulation and single-cell spiking. <i>Neuron</i> , 2006 , 49, 183-9	13.9	132
66	Delay activity of specific prefrontal interneuron subtypes modulates memory-guided behavior. <i>Nature Neuroscience</i> , 2017 , 20, 854-863	25.5	123
65	Organization of long-range inputs and outputs of frontal cortex for top-down control. <i>Nature Neuroscience</i> , 2016 , 19, 1733-1742	25.5	123
64	Temporal specificity in the cortical plasticity of visual space representation. <i>Science</i> , 2002 , 296, 1999-2003	33.3	120
63	Cortical sensitivity to visual features in natural scenes. <i>PLoS Biology</i> , 2005 , 3, e342	9.7	109

62	Asymmetry in visual cortical circuits underlying motion-induced perceptual mislocalization. <i>Journal of Neuroscience</i> , 2004 , 24, 2165-71	6.6	106
61	Activity recall in a visual cortical ensemble. <i>Nature Neuroscience</i> , 2012 , 15, 449-55, S1-2	25.5	104
60	Dynamic modification of cortical orientation tuning mediated by recurrent connections. <i>Neuron</i> , 2002 , 36, 945-54	13.9	101
59	Optogenetics: 10 years after ChR2 in neurons--views from the community. <i>Nature Neuroscience</i> , 2015 , 18, 1202-12	25.5	98
58	Cell-type-specific modulation of neocortical activity by basal forebrain input. <i>Frontiers in Systems Neuroscience</i> , 2012 , 6, 79	3.5	97
57	Representation of interval timing by temporally scalable firing patterns in rat prefrontal cortex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 480-5	11.5	90
56	Rapid learning in cortical coding of visual scenes. <i>Nature Neuroscience</i> , 2007 , 10, 772-8	25.5	90
55	Quantal transmitter secretion from myocytes loaded with acetylcholine. <i>Nature</i> , 1992 , 359, 733-6	50.4	89
54	Dissection of cortical microcircuits by single-neuron stimulation in vivo. <i>Current Biology</i> , 2012 , 22, 1459-67	67.3	84
53	Interneuron subtypes and orientation tuning. <i>Nature</i> , 2014 , 508, E1-2	50.4	81
52	An arithmetic rule for spatial summation of excitatory and inhibitory inputs in pyramidal neurons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 21906-11	11.5	78
51	Regulation of REM and Non-REM Sleep by Periaqueductal GABAergic Neurons. <i>Nature Communications</i> , 2018 , 9, 354	17.4	76
50	Calcium imaging of sleep-wake related neuronal activity in the dorsal pons. <i>Nature Communications</i> , 2016 , 7, 10763	17.4	73
49	Blocking PirB up-regulates spines and functional synapses to unlock visual cortical plasticity and facilitate recovery from amblyopia. <i>Science Translational Medicine</i> , 2014 , 6, 258ra140	17.5	66
48	A Hypothalamic Switch for REM and Non-REM Sleep. <i>Neuron</i> , 2018 , 97, 1168-1176.e4	13.9	60
47	Excitatory and suppressive receptive field subunits in awake monkey primary visual cortex (V1). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 19120-5	11.5	59
46	Cell type-specific long-range connections of basal forebrain circuit. <i>ELife</i> , 2016 , 5,	8.9	58
45	Cholinergic shaping of neural correlations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 5725-5730	11.5	56

44	Stimulation of non-classical receptive field enhances orientation selectivity in the cat. <i>Journal of Physiology</i> , 2005 , 564, 233-43	3.9	55
43	Motion-induced perceptual extrapolation of blurred visual targets. <i>Journal of Neuroscience</i> , 2001 , 21, RC172	6.6	52
42	Synaptic mechanisms of direction selectivity in primary auditory cortex. <i>Journal of Neuroscience</i> , 2010 , 30, 1861-8	6.6	49
41	A Motor Theory of Sleep-Wake Control: Arousal-Action Circuit. <i>Annual Review of Neuroscience</i> , 2019 , 42, 27-46	17	47
40	Retrograde interactions during formation and elimination of neuromuscular synapses. <i>Current Opinion in Neurobiology</i> , 1994 , 4, 95-100	7.6	47
39	Computational subunits of visual cortical neurons revealed by artificial neural networks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 8974-9	11.5	44
38	Function of inhibition in visual cortical processing. <i>Current Opinion in Neurobiology</i> , 2010 , 20, 340-6	7.6	41
37	Intracortical mechanism of stimulus-timing-dependent plasticity in visual cortical orientation tuning. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 5081-6	11.5	41
36	Postsynaptic elevation of calcium induces persistent depression of developing neuromuscular synapses. <i>Neuron</i> , 1996 , 16, 745-54	13.9	37
35	Evoked neuronal secretion of false transmitters. <i>Neuron</i> , 1994 , 13, 909-17	13.9	37
34	Calcium Imaging of Basal Forebrain Activity during Innate and Learned Behaviors. <i>Frontiers in Neural Circuits</i> , 2016 , 10, 36	3.5	35
33	An International Laboratory for Systems and Computational Neuroscience. <i>Neuron</i> , 2017 , 96, 1213-1218	13.9	34
32	Entrainment of slow oscillations of auditory thalamic neurons by repetitive sound stimuli. <i>Journal of Neuroscience</i> , 2009 , 29, 6013-21	6.6	32
31	Contextual modulation of orientation tuning contributes to efficient processing of natural stimuli. <i>Network: Computation in Neural Systems</i> , 2005 , 16, 139-49	0.7	29
30	A common hub for sleep and motor control in the substantia nigra. <i>Science</i> , 2020 , 367, 440-445	33.3	28
29	Prefrontal Corticotectal Neurons Enhance Visual Processing through the Superior Colliculus and Pulvinar Thalamus. <i>Neuron</i> , 2019 , 104, 1141-1152.e4	13.9	28
28	An Excitatory Circuit in the Perioculomotor Midbrain for Non-REM Sleep Control. <i>Cell</i> , 2019 , 177, 1293-1307.e16	36.2	16
27	Control of Non-REM Sleep by Midbrain Neurotensinergic Neurons. <i>Neuron</i> , 2019 , 104, 795-809.e6	13.9	17

26	Spatial structure of neuronal receptive field in awake monkey secondary visual cortex (V2). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 1913-8	11.5	17
25	Inhibition of impulsive action by projection-defined prefrontal pyramidal neurons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 17278-17287	11.5	16
24	Synaptic learning rules, cortical circuits, and visual function. <i>Neuroscientist</i> , 2005 , 11, 206-16	7.6	16
23	Standardized and reproducible measurement of decision-making in mice. <i>ELife</i> , 2021 , 10,	8.9	16
22	Sleep Regulation by Neurotensinergic Neurons in a Thalamo-Amygdala Circuit. <i>Neuron</i> , 2019 , 103, 323-334	11.9	15
21	Priming with real motion biases visual cortical response to bistable apparent motion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 20691-6	11.5	15
20	Robust, automated sleep scoring by a compact neural network with distributional shift correction. <i>PLoS ONE</i> , 2019 , 14, e0224642	3.7	12
19	Calcium-dependent postsynaptic exocytosis: a possible mechanism for activity-dependent synaptic modulation. <i>Journal of Neurobiology</i> , 1994 , 25, 336-41		11
18	Plasticity of developing neuromuscular synapses. <i>Progress in Brain Research</i> , 1995 , 105, 211-5	2.9	10
17	A database and deep learning toolbox for noise-optimized, generalized spike inference from calcium imaging. <i>Nature Neuroscience</i> , 2021 , 24, 1324-1337	25.5	10
16	Standardized and reproducible measurement of decision-making in mice		9
15	Database and deep learning toolbox for noise-optimized, generalized spike inference from calcium imaging		8
14	Periodic stimulation induces long-range modulation of cortical responses and visual perception. <i>Journal of Physiology</i> , 2011 , 589, 3125-33	3.9	7
13	A new neural probe using SOI wafers with topological interlocking mechanisms		6
12	Sleep and Motor Control by a Basal Ganglia Circuit		4
11	Asymmetric temporal integration of layer 4 and layer 2/3 inputs in visual cortex. <i>Journal of Neurophysiology</i> , 2011 , 105, 347-55	3.2	2
10	Sensory systems. <i>Current Opinion in Neurobiology</i> , 2006 , 16, 359-362	7.6	2
9	A form of presynaptic coincidence detection. <i>Neuron</i> , 2003 , 39, 579-81	13.9	2

8	One circuit, two kinds of timing. <i>Neuron</i> , 2005 , 48, 165-6	13.9	1
7	An inferior-superior colliculus circuit controls auditory cue-directed visual spatial attention. <i>Neuron</i> , 2021 ,	13.9	1
6	Reply to Namboodiri and Hussain Shuler: Analysis of scaling of neuronal activities in medial prefrontal cortex during interval timing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, E2240	11.5	
5	Spike Timing and Visual Cortical Plasticity 2003 , 255-267		
4	Robust, automated sleep scoring by a compact neural network with distributional shift correction 2019 , 14, e0224642		
3	Robust, automated sleep scoring by a compact neural network with distributional shift correction 2019 , 14, e0224642		
2	Robust, automated sleep scoring by a compact neural network with distributional shift correction 2019 , 14, e0224642		
1	Robust, automated sleep scoring by a compact neural network with distributional shift correction 2019 , 14, e0224642		