Yang Dan

List of Publications by Year
in descending order

95 papers	16,556 citations	25014 57 h-index	46771 89 g-index
107 all docs	107 docs citations	107 times ranked	13765 citing authors

#	Article	IF	Citations
1	An inferior-superior colliculus circuit controls auditory cue-directed visual spatial attention. Neuron, 2022, 110, 109-119.e3.	3.8	15
2	Standardized and reproducible measurement of decision-making in mice. ELife, 2021, 10, .	2.8	88
3	A database and deep learning toolbox for noise-optimized, generalized spike inference from calcium imaging. Nature Neuroscience, 2021, 24, 1324-1337.	7.1	57
4	Inhibition of impulsive action by projection-defined prefrontal pyramidal neurons. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 17278-17287.	3.3	41
5	A common hub for sleep and motor control in the substantia nigra. Science, 2020, 367, 440-445.	6.0	86
6	Prefrontal Corticotectal Neurons Enhance Visual Processing through the Superior Colliculus and Pulvinar Thalamus. Neuron, 2019, 104, 1141-1152.e4.	3.8	58
7	Control of Non-REM Sleep by Midbrain Neurotensinergic Neurons. Neuron, 2019, 104, 795-809.e6.	3.8	43
8	A Motor Theory of Sleep-Wake Control: Arousal-Action Circuit. Annual Review of Neuroscience, 2019, 42, 27-46.	5.0	125
9	Sleep Regulation by Neurotensinergic Neurons in a Thalamo-Amygdala Circuit. Neuron, 2019, 103, 323-334.e7.	3.8	43
10	An Excitatory Circuit in the Perioculomotor Midbrain for Non-REM Sleep Control. Cell, 2019, 177, 1293-1307.e16.	13.5	54
11	Robust, automated sleep scoring by a compact neural network with distributional shift correction. PLoS ONE, 2019, 14, e0224642.	1.1	45
12	Robust, automated sleep scoring by a compact neural network with distributional shift correction. , 2019, 14, e0224642.		0
13	Robust, automated sleep scoring by a compact neural network with distributional shift correction. , 2019, 14, e0224642.		0
14	Robust, automated sleep scoring by a compact neural network with distributional shift correction. , 2019, 14, e0224642.		0
15	Robust, automated sleep scoring by a compact neural network with distributional shift correction. , 2019, 14, e0224642.		0
16	A Hypothalamic Switch for REM and Non-REM Sleep. Neuron, 2018, 97, 1168-1176.e4.	3.8	106
17	Regulation of REM and Non-REM Sleep by Periaqueductal GABAergic Neurons. Nature Communications, 2018, 9, 354.	5.8	136
18	Delay activity of specific prefrontal interneuron subtypes modulates memory-guided behavior. Nature Neuroscience, 2017, 20, 854-863.	7.1	186

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19	Identification of preoptic sleep neurons using retrograde labelling and gene profiling. Nature, 2017, 545, 477-481.	13.7	246
20	Cholinergic shaping of neural correlations. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 5725-5730.	3.3	89
21	Editorial overview: Neurobiology of sleep 2017. Current Opinion in Neurobiology, 2017, 44, A1-A3.	2.0	1
22	An International Laboratory for Systems and Computational Neuroscience. Neuron, 2017, 96, 1213-1218.	3.8	60
23	Cell type-specific long-range connections of basal forebrain circuit. ELife, 2016, 5, .	2.8	119
24	Calcium Imaging of Basal Forebrain Activity during Innate and Learned Behaviors. Frontiers in Neural Circuits, 2016, 10, 36.	1.4	75
25	Calcium imaging of sleepâ€“wake related neuronal activity in the dorsal pons. Nature Communications, 2016, 7, 10763.	5.8	110
26	What is memory? The present state of the engram. BMC Biology, 2016, 14, 40.	1.7	277
27	Circuit-based interrogation of sleep control. Nature, 2016, 538, 51-59.	13.7	307
28	Organization of long-range inputs and outputs of frontal cortex for top-down control. Nature Neuroscience, 2016, 19, 1733-1742.	7.1	214
29	Spatial structure of neuronal receptive field in awake monkey secondary visual cortex (V2). Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 1913-1918.	3.3	30
30	Cell-Type-Specific Activity in Prefrontal Cortex during Goal-Directed Behavior. Neuron, 2015, 87, 437-450.	3.8	298
31	Control of REM sleep by ventral medulla GABAergic neurons. Nature, 2015, 526, 435-438.	13.7	234
32	Basal forebrain circuit for sleep-wake control. Nature Neuroscience, 2015, 18, 1641-1647.	7.1	405
33	Optogenetics: 10 years after ChR2 in neuronsâ€”views from the community. Nature Neuroscience, 2015, 18, 1202-1212.	7.1	122
34	Blocking PirB up-regulates spines and functional synapses to unlock visual cortical plasticity and facilitate recovery from amblyopia. Science Translational Medicine, 2014, 6, 258ra140.	5.8	86
35	Representation of interval timing by temporally scalable firing patterns in rat prefrontal cortex. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 480-485.	3.3	126
36	Long-range and local circuits for top-down modulation of visual cortex processing. Science, 2014, 345, 660-665.	6.0	688

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37	Interneuron subtypes and orientation tuning. Nature, 2014, 508, E1-E2.	13.7	96
38	Reply to Namboodiri and Hussain Shuler: Analysis of scaling of neuronal activities in medial prefrontal cortex during interval timing. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E2240-E2240.	3.3	0
39	Fast modulation of visual perception by basal forebrain cholinergic neurons. Nature Neuroscience, 2013, 16, 1857-1863.	7.1	489
40	Priming with real motion biases visual cortical response to bistable apparent motion. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 20691-20696.	3.3	18
41	Dissection of Cortical Microcircuits by Single-Neuron Stimulation InÂVivo. Current Biology, 2012, 22, 1459-1467.	1.8	113
42	Neuromodulation of Brain States. Neuron, 2012, 76, 209-222.	3.8	515
43	Activity recall in a visual cortical ensemble. Nature Neuroscience, 2012, 15, 449-455.	7.1	151
44	Clonally related visual cortical neurons show similar stimulus feature selectivity. Nature, 2012, 486, 118-121.	13.7	208
45	Activation of specific interneurons improves V1 feature selectivity and visual perception. Nature, 2012, 488, 379-383.	13.7	530
46	Cell-type-specific modulation of neocortical activity by basal forebrain input. Frontiers in Systems Neuroscience, 2012, 6, 79.	1.2	120
47	Asymmetric Temporal Integration of Layer 4 and Layer 2/3 Inputs in Visual Cortex. Journal of Neurophysiology, 2011, 105, 347-355.	0.9	4
48	Periodic stimulation induces longâ€range modulation of cortical responses and visual perception. Journal of Physiology, 2011, 589, 3125-3133.	1.3	8
49	LiGluR Restores Visual Responses in Rodent Models of Inherited Blindness. Molecular Therapy, 2011, 19, 1212-1219.	3.7	168
50	Function of inhibition in visual cortical processing. Current Opinion in Neurobiology, 2010, 20, 340-346.	2.0	53
51	Synaptic Mechanisms of Direction Selectivity in Primary Auditory Cortex. Journal of Neuroscience, 2010, 30, 1861-1868.	1.7	53
52	Removing Brakes on Adult Brain Plasticity: From Molecular to Behavioral Interventions. Journal of Neuroscience, 2010, 30, 14964-14971.	1.7	506
53	Entrainment of Slow Oscillations of Auditory Thalamic Neurons by Repetitive Sound Stimuli. Journal of Neuroscience, 2009, 29, 6013-6021.	1.7	39
54	An arithmetic rule for spatial summation of excitatory and inhibitory inputs in pyramidal neurons. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 21906-21911.	3.3	112

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55	Basal forebrain activation enhances cortical coding of natural scenes. Nature Neuroscience, 2009, 12, 1444-1449.	7.1	500
56	Burst Spiking of a Single Cortical Neuron Modifies Global Brain State. Science, 2009, 324, 643-646.	6.0	236
57	Spike Timingâ€"Dependent Plasticity: A Hebbian Learning Rule. Annual Review of Neuroscience, 2008, 31, 25-46.	5.0	1,490
58	Reverberation of Recent Visual Experience in Spontaneous Cortical Waves. Neuron, 2008, 60, 321-327.	3.8	228
59	Excitatory and suppressive receptive field subunits in awake monkey primary visual cortex (V1). Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 19120-19125.	3.3	69
60	Rapid learning in cortical coding of visual scenes. Nature Neuroscience, 2007, 10, 772-778.	7.1	105
61	Spike Timing-Dependent Plasticity: From Synapse to Perception. Physiological Reviews, 2006, 86, 1033-1048.	13.1	574
62	Receptive-Field Modification in Rat Visual Cortex Induced by Paired Visual Stimulation and Single-Cell Spiking. Neuron, 2006, 49, 183-189.	3.8	158
63	Experience-Dependent Plasticity in Adult Visual Cortex. Neuron, 2006, 52, 577-585.	3.8	170
64	Contribution of Individual Spikes in Burst-Induced Long-Term Synaptic Modification. Journal of Neurophysiology, 2006, 95, 1620-1629.	0.9	182
65	Sensory systems. Current Opinion in Neurobiology, 2006, 16, 359-362.	2.0	2
66	Synaptic Learning Rules, Cortical Circuits, and Visual Function. Neuroscientist, 2005, 11, 206-216.	2.6	20
67	A natural approach to studying vision. Nature Neuroscience, 2005, 8, 1643-1646.	7.1	237
68	Stimulation of non-classical receptive field enhances orientation selectivity in the cat. Journal of Physiology, 2005, 564, 233-243.	1.3	62
69	Spike-timing-dependent synaptic plasticity depends on dendritic location. Nature, 2005, 434, 221-225.	13.7	354
70	Cortical Sensitivity to Visual Features in Natural Scenes. PLoS Biology, 2005, 3, e342.	2.6	132
71	Contextual modulation of orientation tuning contributes to efficient processing of natural stimuli. Network: Computation in Neural Systems, 2005, 16, 139-149.	2.2	37
72	Spatial Structure of Complex Cell Receptive Fields Measured with Natural Images. Neuron, 2005, 45, 781-791.	3.8	177

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73	One Circuit, Two Kinds of Timing. Neuron, 2005, 48, 165-166.	3.8	1
74	Do We Know What the Early Visual System Does?. Journal of Neuroscience, 2005, 25, 10577-10597.	1.7	563
75	Asymmetry in Visual Cortical Circuits Underlying Motion-Induced Perceptual Mislocalization. Journal of Neuroscience, 2004, 24, 2165-2171.	1.7	116
76	Intracortical mechanism of stimulus-timing-dependent plasticity in visual cortical orientation tuning. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 5081-5086.	3.3	48
77	Spike Timing-Dependent Plasticity of Neural Circuits. Neuron, 2004, 44, 23-30.	3.8	899
78	A Form of Presynaptic Coincidence Detection. Neuron, 2003, 39, 579-581.	3.8	2
79	Spike Timing and Visual Cortical Plasticity. , 2003, , 255-267.		0
80	Computational subunits of visual cortical neurons revealed by artificial neural networks. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 8974-8979.	3.3	57
81	Temporal Specificity in the Cortical Plasticity of Visual Space Representation. Science, 2002, 296, 1999-2003.	6.0	134
82	Dynamic Modification of Cortical Orientation Tuning Mediated by Recurrent Connections. Neuron, 2002, 36, 945-954.	3.8	118
83	Isolation of Relevant Visual Features from Random Stimuli for Cortical Complex Cells. Journal of Neuroscience, 2002, 22, 10811-10818.	1.7	147
84	Spike-timing-dependent synaptic modification induced by natural spike trains. Nature, 2002, 416, 433-438.	13.7	702
85	Stimulus Timing-Dependent Plasticity in Cortical Processing of Orientation. Neuron, 2001, 32, 315-323.	3.8	210
86	Motion-Induced Perceptual Extrapolation of Blurred Visual Targets. Journal of Neuroscience, 2001, 21, RC172-RC172.	1.7	69
87	Reconstruction of Natural Scenes from Ensemble Responses in the Lateral Geniculate Nucleus. Journal of Neuroscience, 1999, 19, 8036-8042.	1.7	282
88	Postsynaptic Elevation of Calcium Induces Persistent Depression of Developing Neuromuscular Synapses. Neuron, 1996, 16, 745-754.	3.8	37
89	Efficient Coding of Natural Scenes in the Lateral Geniculate Nucleus: Experimental Test of a Computational Theory. Journal of Neuroscience, 1996, 16, 3351-3362.	1.7	397
90	Chapter 19 Plasticity of developing neuromuscular synapses. Progress in Brain Research, 1995, 105, 211-215.	0.9	10

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91	Calcium-dependent postsynaptic exocytosis: A possible mechanism for activity-dependent synaptic modulation. Journal of Neurobiology, 1994, 25, 336-341.	3.7	12
92	Retrograde interactions during formation and elimination of neuromuscular synapses. Current Opinion in Neurobiology, 1994, 4, 95-100.	2.0	49
93	Evoked neuronal secretion of false transmitters. Neuron, 1994, 13, 909-917.	3.8	39
94	Quantal transmitter secretion from myocytes loaded with acetylcholine. Nature, 1992, 359, 733-736.	13.7	93
95	A new neural probe using SOI wafers with topological interlocking mechanisms. , 0, , .		8