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List of Publications by Year in descending order

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84 papers	4,478 citations	87723 38 h-index	114278 63 g-index
86 all docs	86 docs citations	86 times ranked	4638 citing authors

#	Article	IF	Citations
1	Laser Lesion in the Mouse Visual Cortex Induces a Stem Cell Niche-Like Extracellular Matrix, Produced by Immature Astrocytes. Frontiers in Cellular Neuroscience, 2020, 14, 102.	1.8	11
2	TMS-induced neuronal plasticity enables targeted remodeling of visual cortical maps. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 6476-6481.	3.3	43
3	Plasticity Beyond V1: Reinforcement of Motion Perception upon Binocular Central Retinal Lesions in Adulthood. Journal of Neuroscience, 2017, 37, 8989-8999.	1.7	9
4	Retinal lesions induce fast intrinsic cortical plasticity in adult mouse visual system. European Journal of Neuroscience, 2016, 44, 2165-2175.	1.2	6
5	Mitochondrial Dynamics in Visual Cortex Are Limited In Vivo and Not Affected by Axonal Structural Plasticity. Current Biology, 2016, 26, 2609-2616.	1.8	83
6	Origins of feature selectivities and maps in the mammalian primary visual cortex. Trends in Neurosciences, 2015, 38, 475-485.	4.2	34
7	The brain's dress code: How The Dress allows to decode the neuronal pathway of an optical illusion. Cortex, 2015, 73, 271-275.	1.1	31
8	Voltage-sensitive dye imaging of transcranial magnetic stimulation-induced intracortical dynamics. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 13553-13558.	3.3	60
9	Synaptic Scaling and Homeostatic Plasticity in the Mouse Visual Cortex InÂVivo. Neuron, 2013, 80, 327-334.	3.8	301
10	The laser lesion of the mouse visual cortex as a model to study neural extracellular matrix remodeling during degeneration, regeneration and plasticity of the CNS. Cell and Tissue Research, 2012, 349, 133-145.	1.5	31
11	Theta-Burst Transcranial Magnetic Stimulation Alters Cortical Inhibition. Journal of Neuroscience, 2011, 31, 1193-1203.	1.7	175
12	Loss of Sensory Input Causes Rapid Structural Changes of Inhibitory Neurons in Adult Mouse Visual Cortex. Neuron, 2011, 71, 869-882.	3.8	210
13	Presynaptic nitric oxide/cGMP facilitates glutamate release via hyperpolarization-activated cyclic nucleotide-gated channels in the hippocampus. European Journal of Neuroscience, 2011, 33, 1611-1621.	1.2	78
14	Retinal lesions induce layer-specific Fos expression changes in cat area 17. Experimental Brain Research, 2010, 205, 139-144.	0.7	5
15	Metaplasticity of horizontal connections in the vicinity of focal laser lesions in rat visual cortex. Journal of Physiology, 2010, 588, 4695-4703.	1.3	17
16	Continuous and intermittent transcranial magnetic theta burst stimulation modify tactile learning performance and cortical protein expression in the rat differently. European Journal of Neuroscience, 2010, 32, 1575-1586.	1.2	59
17	Neocortical Axon Arbors Trade-off Material and Conduction Delay Conservation. PLoS Computational Biology, 2010, 6, e1000711.	1.5	73
18	Strengthening of lateral activation in adult rat visual cortex after retinal lesions captured with voltage-sensitive dye imaging in vivo. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 8743-8747.	3.3	41

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19	More than a Retrograde Messenger: Nitric Oxide Needs Two cGMP Pathways to Induce Hippocampal Long-Term Potentiation. Journal of Neuroscience, 2009, 29, 9344-9350.	1.7	80
20	Focal laser-lesions activate an endogenous population of neural stem/progenitor cells in the adult visual cortex. Brain, 2009, 132, 2252-2264.	3.7	64
21	Region-specificity of GABAA receptor mediated effects on orientation and direction selectivity in cat visual cortical area 18. Experimental Brain Research, 2009, 192, 369-378.	0.7	6
22	Differential expression of receptor protein tyrosine phosphatases accompanies the reorganisation of the retina upon laser lesion. Experimental Brain Research, 2009, 198, 37-47.	0.7	3
23	Spatial distribution of long-term potentiation in the surround of visual cortex lesions in vitro. Experimental Brain Research, 2009, 199, 423-433.	0.7	15
24	Editorial: Special Issue Neurovision. Experimental Brain Research, 2009, 199, 201-202.	0.7	0
25	Degeneration of Retinal Ganglion Cells After Optic Nerve Sheath Fenestration in an Experimental Rat Model. Journal of Neuro-Ophthalmology, 2009, 29, 275-280.	0.4	6
26	High- and low-frequency repetitive transcranial magnetic stimulation differentially activates c-Fos and zif268 protein expression in the rat brain. Experimental Brain Research, 2008, 188, 249-261.	0.7	139
27	Impaired GABAergic inhibition in the visual cortex of brainâ€derived neurotrophic factor heterozygous knockout mice. Journal of Physiology, 2008, 586, 1885-1901.	1.3	65
28	Massive restructuring of neuronal circuits during functional reorganization of adult visual cortex. Nature Neuroscience, 2008, 11, 1162-1167.	7.1	275
29	Excitation and Inhibition Jointly Regulate Cortical Reorganization in Adult Rats. Journal of Neuroscience, 2008, 28, 12284-12293.	1.7	52
30	Long-Term Potentiation in the Visual Cortex Requires Both Nitric Oxide Receptor Guanylyl Cyclases. Journal of Neuroscience, 2007, 27, 818-823.	1.7	57
31	Evidence for distinct leptomeningeal cell-dependent paracrine and EGF-linked autocrine regulatory pathways for suppression of fibrillar collagens in astrocytes. Molecular and Cellular Neurosciences, 2007, 36, 71-85.	1.0	17
32	Effect of binocular retinal lesions on CRMP2 and CRMP4 but not Dyn I and Syt I expression in adult cat area 17. European Journal of Neuroscience, 2007, 25, 1395-1401.	1.2	15
33	Layout of transcallosal activity in cat visual cortex revealed by optical imaging. NeuroImage, 2007, 36, 804-821.	2.1	33
34	Reduced presynaptic efficiency of excitatory synaptic transmission impairs LTP in the visual cortex of BDNF-heterozygous mice. European Journal of Neuroscience, 2006, 24, 3519-3531.	1.2	58
35	Effects of repetitive TMS on visually evoked potentials and EEG in the anaesthetized cat: dependence on stimulus frequency and train duration. Journal of Physiology, 2006, 574, 443-455.	1.3	64
36	Visual resolution with retinal implants estimated from recordings in cat visual cortex. Vision Research, 2006, 46, 2675-2690.	0.7	92

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37	Model-based analysis of excitatory lateral connections in the visual cortex. Journal of Comparative Neurology, 2006, 499, 861-881.	0.9	96
38	Dynamics and specificity of cortical map reorganization after retinal lesions. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 10805-10810.	3.3	80
39	Loss of connexin36 increases retinal cell vulnerability to secondary cell loss. European Journal of Neuroscience, 2005, 22, 605-616.	1.2	49
40	Paired-pulse transcranial magnetic stimulation protocol applied to visual cortex of anaesthetized cat: effects on visually evoked single-unit activity. Journal of Physiology, 2005, 566, 955-965.	1.3	54
41	Cortical Activation Via an Implanted Wireless Retinal Prosthesis. , 2005, 46, 1780.		93
42	Probability of Transmitter Release at Neocortical Synapses at Different Temperatures. Journal of Neurophysiology, 2004, 92, 212-220.	0.9	94
43	Time-dependent changes in the expression of the MEF2 transcription factor family during topographic map reorganization in mammalian visual cortex. European Journal of Neuroscience, 2004, 20, 769-780.	1.2	22
44	The role of the magnocellular pathway in serial deployment of visual attention. European Journal of Neuroscience, 2004, 20, 2188-2192.	1.2	60
45	Lesion-induced enhancement of LTP in rat visual cortex is mediated by NMDA receptors containing the NR2B subunit. Journal of Physiology, 2004, 559, 875-882.	1.3	33
46	Nitric oxide synthase in rat visual cortex: an immunohistochemical study. Brain Research Protocols, 2004, 13, 57-67.	1.7	21
47	Retinal lesions affect extracellular glutamate levels in sensory-deprived and remote non-deprived regions of cat area 17 as revealed by in vivo microdialysis. Brain Research, 2003, 962, 199-206.	1.1	26
48	Extracellular GABA concentrations in area 17 of cat visual cortex during topographic map reorganization following binocular central retinal lesioning. Brain Research, 2003, 976, 100-108.	1.1	30
49	Changes in intracellular calcium transients and LTP in the surround of visual cortex lesions in rats. Brain Research, 2003, 990, 120-128.	1.1	22
50	A computerized image analysis system for quantitative analysis of cells in histological brain sections. Journal of Neuroscience Methods, 2003, 125, 33-43.	1.3	49
51	Glutamate levels and transport in cat (Felis catus) area 17 during cortical reorganization following binocular retinal lesions. Journal of Neurochemistry, 2003, 84, 1387-1397.	2.1	28
52	Differential display implicates cyclophilin A in adult cortical plasticity. European Journal of Neuroscience, 2003, 18, 61-75.	1.2	27
53	Independence of visuotopic representation and orientation map in the visual cortex of the cat. European Journal of Neuroscience, 2003, 18, 957-968.	1.2	35
54	Effect of transcranial magnetic stimulation on singleâ€unit activity in the cat primary visual cortex. Journal of Physiology, 2003, 553, 665-679.	1.3	207

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55	Retinotopic map plasticity in adult cat visual cortex is accompanied by changes in ca2+/calmodulin-dependent protein kinase ii Î± autophosphorylation. Neuroscience, 2003, 120, 133-142.	1.1	14
56	Thermal windows on the trunk of hauled-out seals: hot spots for thermoregulatory evaporation?. Journal of Experimental Biology, 2003, 206, 1727-1738.	0.8	77
57	NEUROSCIENCE: Illusions and Perceived Images in the Primate Brain. Science, 2003, 302, 789-791.	6.0	15
58	Quantification of histological changes after calibrated crush of the intraorbital optic nerve in rats. British Journal of Ophthalmology, 2002, 86, 233-237.	2.1	36
59	Quantification of the neurodegenerative impact on the visual system following sudden retrobulbar expanding lesions â€“ an experimental model. Journal of Cranio-Maxillo-Facial Surgery, 2002, 30, 230-236.	0.7	16
60	Spatioâ€“temporal plasticity of cortical receptive fields in response to repetitive visual stimulation in the adult cat. Neuroscience, 2002, 112, 195-215.	1.1	21
61	Activity-dependent receptive field changes in the surround of adult cat visual cortex lesions. European Journal of Neuroscience, 2002, 15, 1585-1596.	1.2	32
62	Metabotropic glutamate receptors mediate expression of LTP in slices of rat visual cortex. European Journal of Neuroscience, 2002, 15, 1641-1645.	1.2	35
63	D 1 and D 2 receptorâ€mediated dopaminergic modulation of visual responses in cat dorsal lateral geniculate nucleus. Journal of Physiology, 2002, 539, 223-238.	1.3	32
64	A novel mechanism of response selectivity of neurons in cat visual cortex. Journal of Physiology, 2002, 540, 307-320.	1.3	31
65	One axon-multiple functions: specificity of lateral inhibitory connections by large basket cells. Journal of Neurocytology, 2002, 31, 255-264.	1.6	36
66	Increased synaptic plasticity in the surround of visual cortex lesions in rats. NeuroReport, 2001, 12, 3341-3347.	0.6	47
67	Changes in response modulation of cat perigeniculate neurons related to EEG state and application of neuromodulators. NeuroReport, 2001, 12, 815-820.	0.6	4
68	Changes of contrast gain in cat dorsal lateral geniculate nucleus by dopamine receptor agonists. NeuroReport, 2001, 12, 2939-2945.	0.6	41
69	Intracellular calcium signals in the surround of rat visual cortex lesions. NeuroReport, 2001, 12, 3023-3028.	0.6	17
70	Topography of orientation centre connections in the primary visual cortex of the cat. NeuroReport, 2001, 12, 1693-1699.	0.6	41
71	Axonal topography of cortical basket cells in relation to orientation, direction, and ocular dominance maps. Journal of Comparative Neurology, 2001, 437, 259-285.	0.9	86
72	Lesion-induced changes in NMDA receptor subunit mRNA expression in rat visual cortex. NeuroReport, 2000, 11, 4021-4025.	0.6	16

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73	Quantitative aspects of the state-dependent co-variation of cat lateral geniculate and perigeniculate visual activity. NeuroReport, 2000, 11, 1031-1037.	0.6	7
74	Investigation of cortical reorganization in area 17 and nine extrastriate visual areas through the detection of changes in immediate early gene expression as induced by retinal lesions. Journal of Comparative Neurology, 2000, 425, 531-544.	0.9	58
75	Comparison of the selectivity of postsynaptic potentials and spike responses in cat visual cortex. European Journal of Neuroscience, 2000, 12, 257-263.	1.2	54
76	Retrograde signalling with nitric oxide at neocortical synapses. European Journal of Neuroscience, 2000, 12, 4255-4267.	1.2	53
77	Cooperative changes in GABA, glutamate and activity levels: the missing link in cortical plasticity. European Journal of Neuroscience, 2000, 12, 4222-4232.	1.2	77
78	Combined physiological-anatomical approaches to study lateral inhibition. Journal of Neuroscience Methods, 2000, 103, 91-106.	1.3	24
79	Enhanced responsiveness of human extravisual areas to photic stimulation in patients with severely reduced vision. Experimental Brain Research, 2000, 135, 34-40.	0.7	19
80	Synaptic transmission in the neocortex during reversible cooling. Neuroscience, 2000, 98, 9-22.	1.1	96
81	Effect of partial sensory deprivation on monoaminergic neuromodulators in striate cortex of adult cat. Neuroscience, 2000, 101, 863-868.	1.1	43
82	Context, state and the receptive fields of striatal cortex cells. Trends in Neurosciences, 2000, 23, 497-503.	4.2	73
83	Turning a corner in vision research. Nature, 1999, 399, 641-643.	13.7	35
84	NMDA receptor blockade prevents LTD, but not LTP induction by intracellular tetanization. NeuroReport, 1999, 10, 3869-3874.	0.6	6