

Charles L Cox

List of Publications by Year in descending order

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61
papers

2,836
citations

218677

26
h-index

189892

50
g-index

61
all docs

61
docs citations

61
times ranked

2915
citing authors

#	ARTICLE	IF	CITATIONS
1	Circadian Rhythm of Redox State Regulates Excitability in Suprachiasmatic Nucleus Neurons. <i>Science</i> , 2012, 337, 839-842.	12.6	188
2	Fourier Analysis of Sinusoidally Driven Thalamocortical Relay Neurons and a Minimal Integrate-and-Fire-or-Burst Model. <i>Journal of Neurophysiology</i> , 2000, 83, 588-610.	1.8	187
3	Nucleus reticularis neurons mediate diverse inhibitory effects in thalamus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1997, 94, 8854-8859.	7.1	143
4	Action potentials reliably invade axonal arbors of rat neocortical neurons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000, 97, 9724-9728.	7.1	138
5	Patch Clamp Electrophysiology and Capillary Electrophoresis-Mass Spectrometry Metabolomics for Single Cell Characterization. <i>Analytical Chemistry</i> , 2014, 86, 3203-3208.	6.5	123
6	High-efficiency motor neuron differentiation from human pluripotent stem cells and the function of <i>Isl1</i> . <i>Nature Communications</i> , 2014, 5, 3449.	12.8	121
7	Heterogeneous axonal arborizations of rat thalamic reticular neurons in the ventrobasal nucleus. , 1996, 366, 416-430.		110
8	Absence of metabotropic glutamate receptor-mediated plasticity in the neocortex of fragile X mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 2454-2459.	7.1	108
9	Glutamate Inhibits Thalamic Reticular Neurons. <i>Journal of Neuroscience</i> , 1999, 19, 6694-6699.	3.6	101
10	Current Clamp and Modeling Studies of Low-Threshold Calcium Spikes in Cells of the Cat's Lateral Geniculate Nucleus. <i>Journal of Neurophysiology</i> , 1999, 81, 2360-2373.	1.8	98
11	Control of Dendritic Outputs of Inhibitory Interneurons in the Lateral Geniculate Nucleus. <i>Neuron</i> , 2000, 27, 597-610.	8.1	92
12	Low-Threshold Ca^{2+} Current Amplifies Distal Dendritic Signaling in Thalamic Reticular Neurons. <i>Journal of Neuroscience</i> , 2010, 30, 15419-15429.	3.6	86
13	Glutamate locally activates dendritic outputs of thalamic interneurons. <i>Nature</i> , 1998, 394, 478-482.	27.8	80
14	Modulation of cellular excitability in neocortex: Muscarinic receptor and second messenger-mediated actions of acetylcholine. <i>Synapse</i> , 1994, 16, 123-136.	1.2	77
15	Cholecystokinin depolarizes rat thalamic reticular neurons by suppressing a K^{+} conductance. <i>Journal of Neurophysiology</i> , 1995, 74, 990-1000.	1.8	74
16	Heterogeneity of firing properties among rat thalamic reticular nucleus neurons. <i>Journal of Physiology</i> , 2007, 582, 195-208.	2.9	73
17	Binding of amyloid β peptide to β adrenergic receptor induces PKA-dependent AMPA receptor hyperactivity. <i>FASEB Journal</i> , 2010, 24, 3511-3521.	0.5	73
18	Synaptic Activation of Metabotropic Glutamate Receptors Regulates Dendritic Outputs of Thalamic Interneurons. <i>Neuron</i> , 2004, 41, 611-623.	8.1	61

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19	Modulation of thalamic neuron excitability by orexins. <i>Neuropharmacology</i> , 2006, 51, 414-425.	4.1	57
20	Metabotropic Glutamate Receptors Differentially Regulate GABAergic Inhibition in Thalamus. <i>Journal of Neuroscience</i> , 2006, 26, 13443-13453.	3.6	56
21	Synaptic potentials and effects of amino acid antagonists in the auditory cortex. <i>Brain Research Bulletin</i> , 1992, 28, 401-410.	3.0	54
22	Peptidergic Modulation of Intrathalamic Circuit Activity <i>In Vitro</i> : Actions of Cholecystokinin. <i>Journal of Neuroscience</i> , 1997, 17, 70-82.	3.6	46
23	Dynamics of Low-Threshold Spike Activation in Relay Neurons of the Cat Lateral Geniculate Nucleus. <i>Journal of Neuroscience</i> , 2001, 21, 1022-1032.	3.6	45
24	Dopamine enhances the excitability of somatosensory thalamocortical neurons. <i>Neuroscience</i> , 2010, 170, 981-991.	2.3	40
25	Argiotoxin-636 blocks excitatory synaptic transmission in rat hippocampal CA1 pyramidal neurons. <i>Brain Research</i> , 1989, 480, 234-241.	2.2	35
26	Regulation of Inhibitory Synapses by Presynaptic D ₄ Dopamine Receptors in Thalamus. <i>Journal of Neurophysiology</i> , 2010, 104, 2757-2765.	1.8	31
27	Excitatory Actions of Dopamine Via D1-Like Receptors in the Rat Lateral Geniculate Nucleus. <i>Journal of Neurophysiology</i> , 2005, 94, 3708-3718.	1.8	30
28	Local Dendrodendritic Inhibition Regulates Fast Synaptic Transmission in Visual Thalamus. <i>Journal of Neuroscience</i> , 2012, 32, 2513-2522.	3.6	28
29	Two distinct populations of projection neurons in the rat lateral parafascicular thalamic nucleus and their cholinergic responsiveness. <i>Neuroscience</i> , 2009, 162, 155-173.	2.3	26
30	Substance P selectively modulates GABAA receptor-mediated synaptic transmission in striatal cholinergic interneurons. <i>Neuropharmacology</i> , 2010, 58, 413-422.	4.1	24
31	Dampened dopamine-mediated neuromodulation in prefrontal cortex of fragile X mice. <i>Journal of Physiology</i> , 2013, 591, 1133-1143.	2.9	24
32	Cholecystokinin action on layer 6b neurons in somatosensory cortex. <i>Brain Research</i> , 2009, 1282, 10-19.	2.2	23
33	Functional Synaptic Contacts by Intranuclear Axon Collaterals of Thalamic Relay Neurons. <i>Journal of Neuroscience</i> , 2003, 23, 7642-7646.	3.6	21
34	Morphological Correlates of Triadic Circuitry in the Lateral Geniculate Nucleus of Cats and Rats. <i>Journal of Neurophysiology</i> , 2005, 93, 748-757.	1.8	21
35	Excitatory and anti-oscillatory actions of nitric oxide in thalamus. <i>Journal of Physiology</i> , 2008, 586, 3617-3628.	2.9	21
36	Modulation of Inhibitory Activity by Nitric Oxide in the Thalamus. <i>Journal of Neurophysiology</i> , 2007, 97, 3386-3395.	1.8	20

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37	D1 receptor-mediated inhibition of medial prefrontal cortex neurons is disrupted in adult rats exposed to amphetamine in adolescence. <i>Neuroscience</i> , 2016, 324, 40-49.	2.3	20
38	Vasoactive Intestinal Peptide Selectively Depolarizes Thalamic Relay Neurons and Attenuates Intrathalamic Rhythmic Activity. <i>Journal of Neurophysiology</i> , 2003, 90, 1224-1234.	1.8	20
39	Selective Excitatory Actions of DNQX and CNQX in Rat Thalamic Neurons. <i>Journal of Neurophysiology</i> , 2010, 103, 1728-1734.	1.8	19
40	̳FosB Decreases Excitability of Dorsal Hippocampal CA1 Neurons. <i>ENeuro</i> , 2018, 5, ENEURO.0104-18.2018.	1.9	19
41	Repeated exposure to amphetamine during adolescence alters inhibitory tone in the medial prefrontal cortex following drug re-exposure in adulthood. <i>Behavioural Brain Research</i> , 2016, 309, 9-13.	2.2	18
42	Activity-Dependent Regulation of Retinogeniculate Signaling by Metabotropic Glutamate Receptors. <i>Journal of Neuroscience</i> , 2012, 32, 12820-12831.	3.6	16
43	Excitatory Actions of Vasoactive Intestinal Peptide on Mouse Thalamocortical Neurons Are Mediated by VPAC2 Receptors. <i>Journal of Neurophysiology</i> , 2006, 96, 858-871.	1.8	15
44	Distinct Roles of Metabotropic Glutamate Receptor Activation on Inhibitory Signaling in the Ventral Lateral Geniculate Nucleus. <i>Journal of Neurophysiology</i> , 2009, 101, 1761-1773.	1.8	15
45	Attenuation of inhibitory synaptic transmission by glial dysfunction in rat thalamus. <i>Synapse</i> , 2011, 65, 1298-1308.	1.2	15
46	Thalamic microcircuits: presynaptic dendrites form two feedforward inhibitory pathways in thalamus. <i>Journal of Neurophysiology</i> , 2013, 110, 470-480.	1.8	15
47	Excitatory actions of substance P in the rat lateral posterior nucleus. <i>European Journal of Neuroscience</i> , 2010, 31, 1-13.	2.6	14
48	High frequency stimulation-induced plasticity in the prelimbic cortex of rats emerges during adolescent development and is associated with an increase in dopamine receptor function. <i>Neuropharmacology</i> , 2018, 141, 158-166.	4.1	14
49	The multifaceted role of inhibitory interneurons in the dorsal lateral geniculate nucleus. <i>Visual Neuroscience</i> , 2017, 34, E017.	1.0	13
50	Depression of retinogeniculate synaptic transmission by presynaptic D2-like dopamine receptors in rat lateral geniculate nucleus. <i>European Journal of Neuroscience</i> , 2006, 23, 423-434.	2.6	12
51	Excitatory actions of synaptically released catecholamines in the rat lateral geniculate nucleus. <i>Neuroscience</i> , 2006, 137, 671-683.	2.3	12
52	Complex regulation of dendritic transmitter release from thalamic interneurons. <i>Current Opinion in Neurobiology</i> , 2014, 29, 126-132.	4.2	11
53	Spatially distinct actions of metabotropic glutamate receptor activation in dorsal lateral geniculate nucleus. <i>Journal of Neurophysiology</i> , 2012, 107, 1157-1163.	1.8	9
54	Calmodulin activity regulates group I metabotropic glutamate receptor-mediated signal transduction and synaptic depression. <i>Journal of Neuroscience Research</i> , 2016, 94, 401-408.	2.9	9

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55	Localization of CCK Receptors in Thalamic Reticular Neurons: A Modeling Study. <i>Journal of Neurophysiology</i> , 1998, 79, 2820-2824.	1.8	8
56	Distinct kinetics of inhibitory currents in thalamocortical neurons that arise from dendritic or axonal origin. <i>PLoS ONE</i> , 2017, 12, e0189690.	2.5	7
57	Excitatory actions of peptide histidine isoleucine on thalamic relay neurons. <i>Neuropharmacology</i> , 2008, 55, 1329-1339.	4.1	6
58	Age-dependent actions of dopamine on inhibitory synaptic transmission in superficial layers of mouse prefrontal cortex. <i>Journal of Neurophysiology</i> , 2013, 109, 1323-1332.	1.8	6
59	Cell's intrinsic biophysical properties play a role in the systematic decrease in time-locking ability of central auditory neurons. <i>Neuroscience</i> , 2012, 208, 49-57.	2.3	4
60	Heterogeneous axonal arborizations of rat thalamic reticular neurons in the ventrobasal nucleus. <i>Journal of Comparative Neurology</i> , 1996, 366, 416-430.	1.6	3
61	Bifurcation analysis of a thalamic relay neuron model. , 2009, , .		1