# 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 | 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. Neuropharmacology, 2018, 141, 158-166. | 4.1 | 14 |
| 2 | Î”FosB Decreases Excitability of Dorsal Hippocampal CA1 Neurons. ENeuro, 2018, 5, ENEURO.0104-18.2018. | 1.9 | 19 |
| 3 | The multifaceted role of inhibitory interneurons in the dorsal lateral geniculate nucleus. Visual Neuroscience, 2017, 34, E017. | 1.0 | 13 |
| 4 | Distinct kinetics of inhibitory currents in thalamocortical neurons that arise from dendritic or axonal origin. PLoS ONE, 2017, 12, e0189690. | 2.5 | 7 |
| 5 | Calmodulin activity regulates group I metabotropic glutamate receptorâ€mediated signal transduction and synaptic depression. Journal of Neuroscience Research, 2016, 94, 401-408. | 2.9 | 9 |
| 6 | Repeated exposure to amphetamine during adolescence alters inhibitory tone in the medial prefrontal cortex following drug re-exposure in adulthood. Behavioural Brain Research, 2016, 309, 9-13. | 2.2 | 18 |
| 7 | D1 receptor-mediated inhibition of medial prefrontal cortex neurons is disrupted in adult rats exposed to amphetamine in adolescence. Neuroscience, 2016, 324, 40-49. | 2.3 | 20 |
| 8 | High-efficiency motor neuron differentiation from human pluripotent stem cells and the function of Islet-1. Nature Communications, 2014, 5, 3449. | 12.8 | 121 |
| 9 | Patch Clamp Electrophysiology and Capillary Electrophoresisâ€“Mass Spectrometry Metabolomics for Single Cell Characterization. Analytical Chemistry, 2014, 86, 3203-3208. | 6.5 | 123 |
| 10 | Complex regulation of dendritic transmitter release from thalamic interneurons. Current Opinion in Neurobiology, 2014, 29, 126-132. | 4.2 | 11 |
| 11 | Dampened dopamineâ€mediated neuromodulation in prefrontal cortex of fragile X mice. Journal of Physiology, 2013, 591, 1133-1143. | 2.9 | 24 |
| 12 | Thalamic microcircuits: presynaptic dendrites form two feedforward inhibitory pathways in thalamus. Journal of Neurophysiology, 2013, 110, 470-480. | 1.8 | 15 |
| 13 | Age-dependent actions of dopamine on inhibitory synaptic transmission in superficial layers of mouse prefrontal cortex. Journal of Neurophysiology, 2013, 109, 1323-1332. | 1.8 | 6 |
| 14 | Spatially distinct actions of metabotropic glutamate receptor activation in dorsal lateral geniculate nucleus. Journal of Neurophysiology, 2012, 107, 1157-1163. | 1.8 | 9 |
| 15 | Activity-Dependent Regulation of Retinogeniculate Signaling by Metabotropic Glutamate Receptors. Journal of Neuroscience, 2012, 32, 12820-12831. | 3.6 | 16 |
| 16 | Local Dendrodendritic Inhibition Regulates Fast Synaptic Transmission in Visual Thalamus. Journal of Neuroscience, 2012, 32, 2513-2522. | 3.6 | 28 |
| 17 | Cell's intrinsic biophysical properties play a role in the systematic decrease in time-locking ability of central auditory neurons. Neuroscience, 2012, 208, 49-57. | 2.3 | 4 |
| 18 | Circadian Rhythm of Redox State Regulates Excitability in Suprachiasmatic Nucleus Neurons. Science, 2012, 337, 839-842. | 12.6 | 188 |

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|---|---|---|---|
| 19 | Attenuation of inhibitory synaptic transmission by glial dysfunction in rat thalamus. Synapse, 2011, 65, 1298-1308. | 1.2 | 15 |
| 20 | Selective Excitatory Actions of DNQX and CNQX in Rat Thalamic Neurons. Journal of Neurophysiology, 2010, 103, 1728-1734. | 1.8 | 19 |
| 21 | Excitatory actions of substance P in the rat lateral posterior nucleus. European Journal of Neuroscience, 2010, 31, 1-13. | 2.6 | 14 |
| 22 | Binding of amyloid Î² peptide to Î² <sub>2</sub> adrenergic receptor induces PKAâ€dependent AMPA receptor hyperactivity. FASEB Journal, 2010, 24, 3511-3521. | 0.5 | 73 |
| 23 | Regulation of Inhibitory Synapses by Presynaptic D<sub>4</sub> Dopamine Receptors in Thalamus. Journal of Neurophysiology, 2010, 104, 2757-2765. | 1.8 | 31 |
| 24 | Low-Threshold Ca<sup>2+</sup>Current Amplifies Distal Dendritic Signaling in Thalamic Reticular Neurons. Journal of Neuroscience, 2010, 30, 15419-15429. | 3.6 | 86 |
| 25 | Substance P selectively modulates GABAA receptor-mediated synaptic transmission in striatal cholinergic interneurons. Neuropharmacology, 2010, 58, 413-422. | 4.1 | 24 |
| 26 | Dopamine enhances the excitability of somatosensory thalamocortical neurons. Neuroscience, 2010, 170, 981-991. | 2.3 | 40 |
| 27 | Distinct Roles of Metabotropic Glutamate Receptor Activation on Inhibitory Signaling in the Ventral Lateral Geniculate Nucleus. Journal of Neurophysiology, 2009, 101, 1761-1773. | 1.8 | 15 |
| 28 | Bifurcation analysis of a thalamic relay neuron model. , 2009, , . | | 1 |
| 29 | Cholecystokinin action on layer 6b neurons in somatosensory cortex. Brain Research, 2009, 1282, 10-19. | 2.2 | 23 |
| 30 | Two distinct populations of projection neurons in the rat lateral parafascicular thalamic nucleus and their cholinergic responsiveness. Neuroscience, 2009, 162, 155-173. | 2.3 | 26 |
| 31 | Excitatory and antiâ€oscillatory actions of nitric oxide in thalamus. Journal of Physiology, 2008, 586, 3617-3628. | 2.9 | 21 |
| 32 | Excitatory actions of peptide histidine isoleucine on thalamic relay neurons. Neuropharmacology, 2008, 55, 1329-1339. | 4.1 | 6 |
| 33 | Absence of metabotropic glutamate receptor-mediated plasticity in the neocortex of fragile X mice. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 2454-2459. | 7.1 | 108 |
| 34 | Modulation of Inhibitory Activity by Nitric Oxide in the Thalamus. Journal of Neurophysiology, 2007, 97, 3386-3395. | 1.8 | 20 |
| 35 | Heterogeneity of firing properties among rat thalamic reticular nucleus neurons. Journal of Physiology, 2007, 582, 195-208. | 2.9 | 73 |
| 36 | Depression of retinogeniculate synaptic transmission by presynaptic D2-like dopamine receptors in rat lateral geniculate nucleus. European Journal of Neuroscience, 2006, 23, 423-434. | 2.6 | 12 |

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|---|---|---|---|
| 37 | Modulation of thalamic neuron excitability by orexins. Neuropharmacology, 2006, 51, 414-425. | 4.1 | 57 |
| 38 | Excitatory actions of synaptically released catecholamines in the rat lateral geniculate nucleus. Neuroscience, 2006, 137, 671-683. | 2.3 | 12 |
| 39 | Excitatory Actions of Vasoactive Intestinal Peptide on Mouse Thalamocortical Neurons Are Mediated by VPAC2 Receptors. Journal of Neurophysiology, 2006, 96, 858-871. | 1.8 | 15 |
| 40 | Metabotropic Glutamate Receptors Differentially Regulate GABAergic Inhibition in Thalamus. Journal of Neuroscience, 2006, 26, 13443-13453. | 3.6 | 56 |
| 41 | Excitatory Actions of Dopamine Via D1-Like Receptors in the Rat Lateral Geniculate Nucleus. Journal of Neurophysiology, 2005, 94, 3708-3718. | 1.8 | 30 |
| 42 | Morphological Correlates of Triadic Circuitry in the Lateral Geniculate Nucleus of Cats and Rats. Journal of Neurophysiology, 2005, 93, 748-757. | 1.8 | 21 |
| 43 | Synaptic Activation of Metabotropic Glutamate Receptors Regulates Dendritic Outputs of Thalamic Interneurons. Neuron, 2004, 41, 611-623. | 8.1 | 61 |
| 44 | Functional Synaptic Contacts by Intranuclear Axon Collaterals of Thalamic Relay Neurons. Journal of Neuroscience, 2003, 23, 7642-7646. | 3.6 | 21 |
| 45 | Vasoactive Intestinal Peptide Selectively Depolarizes Thalamic Relay Neurons and Attenuates Intrathalamic Rhythmic Activity. Journal of Neurophysiology, 2003, 90, 1224-1234. | 1.8 | 20 |
| 46 | Dynamics of Low-Threshold Spike Activation in Relay Neurons of the Cat Lateral Geniculate Nucleus. Journal of Neuroscience, 2001, 21, 1022-1032. | 3.6 | 45 |
| 47 | Fourier Analysis of Sinusoidally Driven Thalamocortical Relay Neurons and a Minimal Integrate-and-Fire-or-Burst Model. Journal of Neurophysiology, 2000, 83, 588-610. | 1.8 | 187 |
| 48 | Action potentials reliably invade axonal arbors of rat neocortical neurons. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 9724-9728. | 7.1 | 138 |
| 49 | Control of Dendritic Outputs of Inhibitory Interneurons in the Lateral Geniculate Nucleus. Neuron, 2000, 27, 597-610. | 8.1 | 92 |
| 50 | Glutamate Inhibits Thalamic Reticular Neurons. Journal of Neuroscience, 1999, 19, 6694-6699. | 3.6 | 101 |
| 51 | Current Clamp and Modeling Studies of Low-Threshold Calcium Spikes in Cells of the Catâ€™s Lateral Geniculate Nucleus. Journal of Neurophysiology, 1999, 81, 2360-2373. | 1.8 | 98 |
| 52 | Glutamate locally activates dendritic outputs of thalamic interneurons. Nature, 1998, 394, 478-482. | 27.8 | 80 |
| 53 | Localization of CCK Receptors in Thalamic Reticular Neurons: A Modeling Study. Journal of Neurophysiology, 1998, 79, 2820-2824. | 1.8 | 8 |
| 54 | Peptidergic Modulation of Intrathalamic Circuit ActivityIn Vitro: Actions of Cholecystokinin. Journal of Neuroscience, 1997, 17, 70-82. | 3.6 | 46 |

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|---|---|---|---|
| 55 | Nucleus reticularis neurons mediate diverse inhibitory effects in thalamus. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 8854-8859. | 7.1 | 143 |
| 56 | Heterogeneous axonal arborizations of rat thalamic reticular neurons in the ventrobasal nucleus. , 1996, 366, 416-430. | | 110 |
| 57 | Heterogeneous axonal arborizations of rat thalamic reticular neurons in the ventrobasal nucleus. Journal of Comparative Neurology, 1996, 366, 416-430. | 1.6 | 3 |
| 58 | Cholecystokinin depolarizes rat thalamic reticular neurons by suppressing a K+ conductance. Journal of Neurophysiology, 1995, 74, 990-1000. | 1.8 | 74 |
| 59 | Modulation of cellular excitability in neocortex: Muscarinic receptor and second messenger-mediated actions of acetylcholine. Synapse, 1994, 16, 123-136. | 1.2 | 77 |
| 60 | Synaptic potentials and effects of amino acid antagonists in the auditory cortex. Brain Research Bulletin, 1992, 28, 401-410. | 3.0 | 54 |
| 61 | Argiotoxin-636 blocks excitatory synaptic transmission in rat hippocampal CA1 pyramidal neurons. Brain Research, 1989, 480, 234-241. | 2.2 | 35 |