

Charles C Lee

List of Publications by Year in descending order

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63
papers

1,913
citations

304743

22
h-index

265206

42
g-index

69
all docs

69
docs citations

69
times ranked

1538
citing authors

#	ARTICLE	IF	CITATIONS
1	Auditory thalamocortical transformation: structure and function. Trends in Neurosciences, 2005, 28, 255-263.	8.6	183
2	Synaptic Properties of Thalamic and Intracortical Inputs to Layer 4 of the First- and Higher-Order Cortical Areas in the Auditory and Somatosensory Systems. Journal of Neurophysiology, 2008, 100, 317-326.	1.8	147
3	The distributed auditory cortex. Hearing Research, 2007, 229, 3-13.	2.0	146
4	Connections of cat auditory cortex: I. Thalamocortical system. Journal of Comparative Neurology, 2008, 507, 1879-1900.	1.6	123
5	Connections of cat auditory cortex: III. Corticocortical system. Journal of Comparative Neurology, 2008, 507, 1920-1943.	1.6	102
6	Concurrent Tonotopic Processing Streams in Auditory Cortex. Cerebral Cortex, 2004, 14, 441-451.	2.9	99
7	Principles Governing Auditory Cortex Connections. Cerebral Cortex, 2005, 15, 1804-1814.	2.9	83
8	Topography and physiology of ascending streams in the auditory tectothalamic pathway. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 372-377.	7.1	81
9	On the classification of pathways in the auditory midbrain, thalamus, and cortex. Hearing Research, 2011, 276, 79-87.	2.0	67
10	Connections of cat auditory cortex: II. Commissural system. Journal of Comparative Neurology, 2008, 507, 1901-1919.	1.6	55
11	Convergence of thalamic and cortical pathways in cat auditory cortex. Hearing Research, 2011, 274, 85-94.	2.0	53
12	Thalamic and cortical pathways supporting auditory processing. Brain and Language, 2013, 126, 22-28.	1.6	52
13	Drivers and modulators in the central auditory pathways. Frontiers in Neuroscience, 2010, 4, 79.	2.8	51
14	Areas of cat auditory cortex as defined by neurofilament proteins expressing SMI-32. Hearing Research, 2010, 267, 119-136.	2.0	50
15	Modulator property of the intrinsic cortical projection from layer 6 to layer 4. Frontiers in Systems Neuroscience, 2009, 3, 3.	2.5	46
16	Glutamatergic Inhibition in Sensory Neocortex. Cerebral Cortex, 2009, 19, 2281-2289.	2.9	46
17	Exploring functions for the non-lemniscal auditory thalamus. Frontiers in Neural Circuits, 2015, 9, 69.	2.8	45
18	Neural Mechanisms Underlying Repetitive Behaviors in Rodent Models of Autism Spectrum Disorders. Frontiers in Cellular Neuroscience, 2020, 14, 592710.	3.7	40

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19	Contrasting characteristic behaviours among common laboratory mouse strains. <i>Royal Society Open Science</i> , 2019, 6, 190574.	2.4	37
20	Scalable fabrication of sub-10nm polymer nanopores for DNA analysis. <i>Microsystems and Nanoengineering</i> , 2019, 5, 12.	7.0	33
21	Intracortical convergence of layer 6 neurons. <i>NeuroReport</i> , 2012, 23, 736-740.	1.2	28
22	Intrinsic modulators of auditory thalamocortical transmission. <i>Hearing Research</i> , 2012, 287, 43-50.	2.0	26
23	CaMKII \pm expression in a mouse model of NMDAR hypofunction schizophrenia: Putative roles for IGF-1R and TLR4. <i>Brain Research Bulletin</i> , 2018, 137, 53-70.	3.0	25
24	Specific and nonspecific thalamocortical connectivity in the auditory and somatosensory thalamocortical slices. <i>NeuroReport</i> , 2010, 21, 861-864.	1.2	22
25	Vitamin D attenuated 6-OHDA-induced behavioural deficits, dopamine dysmetabolism, oxidative stress, and neuro-inflammation in mice. <i>Nutritional Neuroscience</i> , 2022, 25, 823-834.	3.1	22
26	Functional Convergence of Thalamic and Intrinsic Projections to Cortical Layers 4 and 6. <i>Neurophysiology</i> , 2013, 45, 396-406.	0.3	20
27	Stem and progenitor cell microenvironment for bone regeneration and repair. <i>Regenerative Medicine</i> , 2019, 14, 693-702.	1.7	19
28	Wiring of Divergent Networks in the Central Auditory System. <i>Frontiers in Neuroanatomy</i> , 2011, 5, 46.	1.7	18
29	Wisteria Floribunda Agglutinin-Labeled Perineuronal Nets in the Mouse Inferior Colliculus, Thalamic Reticular Nucleus and Auditory Cortex. <i>Brain Sciences</i> , 2016, 6, 13.	2.3	17
30	Expression of Behavioral Phenotypes in Genetic and Environmental Mouse Models of Schizophrenia. <i>Frontiers in Behavioral Neuroscience</i> , 2020, 14, 29.	2.0	16
31	Stress-altered synaptic plasticity and DAMP signaling in the hippocampus-PFC axis; elucidating the significance of IGF-1/IGF-1R/CaMKII \pm expression in neural changes associated with a prolonged exposure therapy. <i>Neuroscience</i> , 2017, 353, 147-165.	2.3	15
32	Thalamic dopaminergic neurons projects to the paraventricular nucleus-rostral ventrolateral medulla/C1 neural circuit. <i>Anatomical Record</i> , 2017, 300, 1307-1314.	1.4	14
33	A Putative Mechanism of Age-Related Synaptic Dysfunction Based on the Impact of IGF-1 Receptor Signaling on Synaptic CaMKII \pm Phosphorylation. <i>Frontiers in Neuroanatomy</i> , 2018, 12, 35.	1.7	11
34	Differential Expression of mGluR2 in the Developing Cerebral Cortex of the Mouse. <i>Journal of Biomedical Science and Engineering</i> , 2014, 07, 1030-1037.	0.4	10
35	Perineuronal Nets in the Prefrontal Cortex of a Schizophrenia Mouse Model: Assessment of Neuroanatomical, Electrophysiological, and Behavioral Contributions. <i>International Journal of Molecular Sciences</i> , 2021, 22, 11140.	4.1	10
36	Frequency transformation in the auditory lemniscal thalamocortical system. <i>Frontiers in Neural Circuits</i> , 2014, 8, 75.	2.8	9

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37	Commissural functional topography of the inferior colliculus assessed in vitro. <i>Hearing Research</i> , 2015, 328, 94-101.	2.0	9
38	Inhibitory Projections in the Mouse Auditory Tectothalamic System. <i>Brain Sciences</i> , 2018, 8, 103.	2.3	9
39	SK Channel Modulates Synaptic Plasticity by Tuning CaMKII β Dynamics. <i>Frontiers in Synaptic Neuroscience</i> , 2019, 11, 18.	2.5	9
40	Age-dependent alterations to paraventricular nucleus insulin-like growth factor 1 receptor as a possible link between sympathoexcitation and inflammation. <i>Journal of Neurochemistry</i> , 2016, 139, 706-721.	3.9	8
41	A Synthesis of Auditory Cortical Connections: Thalamocortical, Commissural and Corticocortical Systems. , 2011, , 147-170.		8
42	Laser-scanning Photostimulation of Optogenetically Targeted Forebrain Circuits. <i>Journal of Visualized Experiments</i> , 2013, , 50915.	0.3	6
43	Hyper-Crosslinked Carbohydrate Polymer for Repair of Critical-Sized Bone Defects. <i>BioResearch Open Access</i> , 2019, 8, 111-120.	2.6	6
44	Editorial: Spontaneous Activity in Sensory Systems. <i>Frontiers in Neural Circuits</i> , 2018, 12, 27.	2.8	4
45	Nicotinic alteration of functional thalamocortical topography. <i>NeuroReport</i> , 2015, 26, 688-694.	1.2	3
46	Systemic Sympathoexcitation Was Associated with Paraventricular Hypothalamic Phosphorylation of Synaptic CaMKII β and MAPK/ErK. <i>Frontiers in Neuroscience</i> , 2017, 11, 447.	2.8	3
47	Upregulated SK2 Expression and Impaired CaMKII Phosphorylation Are Shared Synaptic Defects Between 16p11.2del and 129S:disc1 Mutant Mice. <i>ASN Neuro</i> , 2018, 10, 175909141881764.	2.7	3
48	Challenges to a Neuroanatomical Theory of Forebrain Auditory Plasticity. , 2005, , 109-125.		3
49	Patterns of olivocochlear axonal branches. <i>Open Journal of Neuroscience</i> , 2011, 1, .	1.2	3
50	CA1 Spike Timing is Impaired in the 129S Inbred Strain During Cognitive Tasks. <i>Neuroscience</i> , 2022, 484, 119-138.	2.3	3
51	Crossed Connections From Insular Cortex to the Contralateral Thalamus. <i>Frontiers in Neural Circuits</i> , 2021, 15, 710925.	2.8	3
52	From Savannas to Settlements: Exploring Cognitive Foundations for the Design of Urban Spaces. <i>Frontiers in Psychology</i> , 2016, 7, 1607.	2.1	2
53	Functional Topography and Development of Inhibitory Reticulothalamic Barreloid Projections. <i>Frontiers in Neuroanatomy</i> , 2018, 12, 87.	1.7	2
54	Disc1 Carrier Mice Exhibit Alterations in Neural pIGF-1R β and Related Kinase Expression. <i>Frontiers in Cellular Neuroscience</i> , 2020, 14, 94.	3.7	2

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55	An in vivo Cell-Based Delivery Platform for Zinc Finger Artificial Transcription Factors in Pre-clinical Animal Models. <i>Frontiers in Molecular Neuroscience</i> , 2021, 14, 789913.	2.9	2
56	Positive Modulation of SK Channel Impedes Neuron-Specific Cytoskeletal Organization and Maturation. <i>Developmental Neuroscience</i> , 2020, 42, 59-71.	2.0	1
57	Auditory Thalamocortical Transformations. , 2013, , 1-16.		1
58	Two types of auditory glutamatergic synapses and their implications for repairing damaged central auditory pathways. <i>Neural Regeneration Research</i> , 2014, 9, 1000.	3.0	1
59	Perineuronal net aberrations as a putative mechanism of behavioral and neural alterations in DISC-1 mutation model of schizophrenia. <i>IBRO Reports</i> , 2019, 6, S480.	0.3	0
60	Propagating wave activity in a tangential cortical slice. <i>NeuroReport</i> , 2020, 31, 332-337.	1.2	0
61	Auditory Thalamocortical Transformations. , 2015, , 278-292.		0
62	Inhibition of mammillary body neurons by direct activation of Group II metabotropic glutamate receptors. <i>Neurotransmitter (Houston, Tex)</i> , 2016, 3, .	1.2	0
63	Auditory Thalamocortical Transformations. , 2022, , 315-328.		0