

# Charles C Lee

## List of Publications by Year in descending order

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Version: 2024-02-01

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  | 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        |
| 2  | CA1 Spike Timing is Impaired in the 129S Inbred Strain During Cognitive Tasks. <i>Neuroscience</i> , 2022, 484, 119-138.                                                                                                            | 2.3 | 3         |
| 3  | Auditory Thalamocortical Transformations. , 2022, , 315-328.                                                                                                                                                                        |     | 0         |
| 4  | 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        |
| 5  | 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         |
| 6  | Crossed Connections From Insular Cortex to the Contralateral Thalamus. <i>Frontiers in Neural Circuits</i> , 2021, 15, 710925.                                                                                                      | 2.8 | 3         |
| 7  | Disc1 Carrier Mice Exhibit Alterations in Neural pIGF-1R <sup>2</sup> and Related Kinase Expression. <i>Frontiers in Cellular Neuroscience</i> , 2020, 14, 94.                                                                      | 3.7 | 2         |
| 8  | Expression of Behavioral Phenotypes in Genetic and Environmental Mouse Models of Schizophrenia. <i>Frontiers in Behavioral Neuroscience</i> , 2020, 14, 29.                                                                         | 2.0 | 16        |
| 9  | Positive Modulation of SK Channel Impedes Neuron-Specific Cytoskeletal Organization and Maturation. <i>Developmental Neuroscience</i> , 2020, 42, 59-71.                                                                            | 2.0 | 1         |
| 10 | Propagating wave activity in a tangential cortical slice. <i>NeuroReport</i> , 2020, 31, 332-337.                                                                                                                                   | 1.2 | 0         |
| 11 | Neural Mechanisms Underlying Repetitive Behaviors in Rodent Models of Autism Spectrum Disorders. <i>Frontiers in Cellular Neuroscience</i> , 2020, 14, 592710.                                                                      | 3.7 | 40        |
| 12 | Contrasting characteristic behaviours among common laboratory mouse strains. <i>Royal Society Open Science</i> , 2019, 6, 190574.                                                                                                   | 2.4 | 37        |
| 13 | Hyper-Crosslinked Carbohydrate Polymer for Repair of Critical-Sized Bone Defects. <i>BioResearch Open Access</i> , 2019, 8, 111-120.                                                                                                | 2.6 | 6         |
| 14 | 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         |
| 15 | SK Channel Modulates Synaptic Plasticity by Tuning CaMKII $\beta$ Dynamics. <i>Frontiers in Synaptic Neuroscience</i> , 2019, 11, 18.                                                                                               | 2.5 | 9         |
| 16 | Scalable fabrication of sub-10nm polymer nanopores for DNA analysis. <i>Microsystems and Nanoengineering</i> , 2019, 5, 12.                                                                                                         | 7.0 | 33        |
| 17 | Stem and progenitor cell microenvironment for bone regeneration and repair. <i>Regenerative Medicine</i> , 2019, 14, 693-702.                                                                                                       | 1.7 | 19        |
| 18 | CaMKII $\beta$ 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        |

| #  | ARTICLE                                                                                                                                                                                                                                                      | IF  | CITATIONS |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | Upregulated SK2 Expression and Impaired CaMKII Phosphorylation Are Shared Synaptic Defects Between 16p11.2del and 129S: <i>disc1</i> Mutant Mice. <i>ASN Neuro</i> , 2018, 10, 175909141881764.                                                              | 2.7 | 3         |
| 20 | Functional Topography and Development of Inhibitory Reticulothalamic Barreloid Projections. <i>Frontiers in Neuroanatomy</i> , 2018, 12, 87.                                                                                                                 | 1.7 | 2         |
| 21 | A Putative Mechanism of Age-Related Synaptic Dysfunction Based on the Impact of IGF-1 Receptor Signaling on Synaptic CaMKII± Phosphorylation. <i>Frontiers in Neuroanatomy</i> , 2018, 12, 35.                                                               | 1.7 | 11        |
| 22 | Editorial: Spontaneous Activity in Sensory Systems. <i>Frontiers in Neural Circuits</i> , 2018, 12, 27.                                                                                                                                                      | 2.8 | 4         |
| 23 | Inhibitory Projections in the Mouse Auditory Tectothalamic System. <i>Brain Sciences</i> , 2018, 8, 103.                                                                                                                                                     | 2.3 | 9         |
| 24 | Stress-altered synaptic plasticity and DAMP signaling in the hippocampus-PFC axis; elucidating the significance of IGF-1/IGF-1R/CaMKII± expression in neural changes associated with a prolonged exposure therapy. <i>Neuroscience</i> , 2017, 353, 147-165. | 2.3 | 15        |
| 25 | Thalamic dopaminergic neurons projects to the paraventricular nucleusâ€œrostral ventrolateral medulla/C1 neural circuit. <i>Anatomical Record</i> , 2017, 300, 1307-1314.                                                                                    | 1.4 | 14        |
| 26 | Systemic Sympathoexcitation Was Associated with Paraventricular Hypothalamic Phosphorylation of Synaptic CaMKII± and MAPK/ErK. <i>Frontiers in Neuroscience</i> , 2017, 11, 447.                                                                             | 2.8 | 3         |
| 27 | 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        |
| 28 | From Savannas to Settlements: Exploring Cognitive Foundations for the Design of Urban Spaces. <i>Frontiers in Psychology</i> , 2016, 7, 1607.                                                                                                                | 2.1 | 2         |
| 29 | Ageâ€œdependent alterations to paraventricular nucleus insulinâ€œlike growth factor 1 receptor as a possible link between sympathoexcitation and inflammation. <i>Journal of Neurochemistry</i> , 2016, 139, 706-721.                                        | 3.9 | 8         |
| 30 | Inhibition of mammillary body neurons by direct activation of Group II metabotropic glutamate receptors. <i>Neurotransmitter (Houston, Tex)</i> , 2016, 3, .                                                                                                 | 1.2 | 0         |
| 31 | Nicotinic alteration of functional thalamocortical topography. <i>NeuroReport</i> , 2015, 26, 688-694.                                                                                                                                                       | 1.2 | 3         |
| 32 | Exploring functions for the non-lemniscal auditory thalamus. <i>Frontiers in Neural Circuits</i> , 2015, 9, 69.                                                                                                                                              | 2.8 | 45        |
| 33 | Commissural functional topography of the inferior colliculus assessed inÂvitro. <i>Hearing Research</i> , 2015, 328, 94-101.                                                                                                                                 | 2.0 | 9         |
| 34 | Auditory Thalamocortical Transformations. , 2015, , 278-292.                                                                                                                                                                                                 |     | 0         |
| 35 | Frequency transformation in the auditory lemniscal thalamocortical system. <i>Frontiers in Neural Circuits</i> , 2014, 8, 75.                                                                                                                                | 2.8 | 9         |
| 36 | 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         |

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|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 37 | Differential Expression of mGluR2 in the Developing Cerebral Cortex of the Mouse. Journal of Biomedical Science and Engineering, 2014, 07, 1030-1037.                                      | 0.4 | 10        |
| 38 | Thalamic and cortical pathways supporting auditory processing. Brain and Language, 2013, 126, 22-28.                                                                                       | 1.6 | 52        |
| 39 | Functional Convergence of Thalamic and Intrinsic Projections to Cortical Layers 4 and 6. Neurophysiology, 2013, 45, 396-406.                                                               | 0.3 | 20        |
| 40 | Laser-scanning Photostimulation of Optogenetically Targeted Forebrain Circuits. Journal of Visualized Experiments, 2013, , 50915.                                                          | 0.3 | 6         |
| 41 | Auditory Thalamocortical Transformations. , 2013, , 1-16.                                                                                                                                  |     | 1         |
| 42 | Intracortical convergence of layer 6 neurons. NeuroReport, 2012, 23, 736-740.                                                                                                              | 1.2 | 28        |
| 43 | Intrinsic modulators of auditory thalamocortical transmission. Hearing Research, 2012, 287, 43-50.                                                                                         | 2.0 | 26        |
| 44 | Convergence of thalamic and cortical pathways in cat auditory cortex. Hearing Research, 2011, 274, 85-94.                                                                                  | 2.0 | 53        |
| 45 | On the classification of pathways in the auditory midbrain, thalamus, and cortex. Hearing Research, 2011, 276, 79-87.                                                                      | 2.0 | 67        |
| 46 | Wiring of Divergent Networks in the Central Auditory System. Frontiers in Neuroanatomy, 2011, 5, 46.                                                                                       | 1.7 | 18        |
| 47 | A Synthesis of Auditory Cortical Connections: Thalamocortical, Commissural and Corticocortical Systems. , 2011, , 147-170.                                                                 |     | 8         |
| 48 | Patterns of olivocochlear axonal branches. Open Journal of Neuroscience, 2011, 1, .                                                                                                        | 1.2 | 3         |
| 49 | Specific and nonspecific thalamocortical connectivity in the auditory and somatosensory thalamocortical slices. NeuroReport, 2010, 21, 861-864.                                            | 1.2 | 22        |
| 50 | Drivers and modulators in the central auditory pathways. Frontiers in Neuroscience, 2010, 4, 79.                                                                                           | 2.8 | 51        |
| 51 | 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        |
| 52 | Areas of cat auditory cortex as defined by neurofilament proteins expressing SMI-32. Hearing Research, 2010, 267, 119-136.                                                                 | 2.0 | 50        |
| 53 | Modulator property of the intrinsic cortical projection from layer 6 to layer 4. Frontiers in Systems Neuroscience, 2009, 3, 3.                                                            | 2.5 | 46        |
| 54 | Glutamatergic Inhibition in Sensory Neocortex. Cerebral Cortex, 2009, 19, 2281-2289.                                                                                                       | 2.9 | 46        |

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|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 55 | Connections of cat auditory cortex: I. Thalamocortical system. Journal of Comparative Neurology, 2008, 507, 1879-1900.                                                                                       | 1.6 | 123       |
| 56 | Connections of cat auditory cortex: III. Corticocortical system. Journal of Comparative Neurology, 2008, 507, 1920-1943.                                                                                     | 1.6 | 102       |
| 57 | Connections of cat auditory cortex: II. Commissural system. Journal of Comparative Neurology, 2008, 507, 1901-1919.                                                                                          | 1.6 | 55        |
| 58 | 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       |
| 59 | The distributed auditory cortex. Hearing Research, 2007, 229, 3-13.                                                                                                                                          | 2.0 | 146       |
| 60 | Principles Governing Auditory Cortex Connections. Cerebral Cortex, 2005, 15, 1804-1814.                                                                                                                      | 2.9 | 83        |
| 61 | Auditory thalamocortical transformation: structure and function. Trends in Neurosciences, 2005, 28, 255-263.                                                                                                 | 8.6 | 183       |
| 62 | Challenges to a Neuroanatomical Theory of Forebrain Auditory Plasticity. , 2005, , 109-125.                                                                                                                  |     | 3         |
| 63 | Concurrent Tonotopic Processing Streams in Auditory Cortex. Cerebral Cortex, 2004, 14, 441-451.                                                                                                              | 2.9 | 99        |