

Luis Concha

List of Publications by Year in descending order

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Version: 2024-02-01

73
papers

5,588
citations

125106

35
h-index

100535

70
g-index

90
all docs

90
docs citations

90
times ranked

8837
citing authors

#	ARTICLE	IF	CITATIONS
1	The ENIGMA-Epilepsy working group: Mapping disease from large data sets. <i>Human Brain Mapping</i> , 2022, 43, 113-128.	1.9	47
2	A systems-level analysis highlights microglial activation as a modifying factor in common epilepsies. <i>Neuropathology and Applied Neurobiology</i> , 2022, 48, .	1.8	22
3	Improved post-stroke spontaneous recovery by astrocytic extracellular vesicles. <i>Molecular Therapy</i> , 2022, 30, 798-815.	3.7	17
4	Topographic divergence of atypical cortical asymmetry and atrophy patterns in temporal lobe epilepsy. <i>Brain</i> , 2022, 145, 1285-1298.	3.7	18
5	Life-long arsenic exposure damages the microstructure of the rat hippocampus. <i>Brain Research</i> , 2022, 1775, 147742.	1.1	1
6	Event-based modeling in temporal lobe epilepsy demonstrates progressive atrophy from cross-sectional data. <i>Epilepsia</i> , 2022, 63, 2081-2095.	2.6	11
7	Superficial and deep white matter diffusion abnormalities in focal epilepsies. <i>Epilepsia</i> , 2022, 63, 2312-2324.	2.6	4
8	Chronobiotic effect of melatonin in experimental optic neuritis. <i>Neuropharmacology</i> , 2021, 182, 108401.	2.0	1
9	Artificial intelligence for classification of temporal lobe epilepsy with ROI-level MRI data: A worldwide ENIGMA-Epilepsy study. <i>NeuroImage: Clinical</i> , 2021, 31, 102765.	1.4	25
10	PREEMACS: Pipeline for preprocessing and extraction of the macaque brain surface. <i>NeuroImage</i> , 2021, 227, 117671.	2.1	10
11	Longitudinal changes in gray and white matter microstructure during epileptogenesis in pilocarpine-induced epileptic rats. <i>Seizure: the Journal of the British Epilepsy Association</i> , 2021, 90, 130-140.	0.9	9
12	Tractography dissection variability: What happens when 42 groups dissect 14 white matter bundles on the same dataset?. <i>NeuroImage</i> , 2021, 243, 118502.	2.1	94
13	Demyelination and Remyelination of the Rat Caudal Cerebellar Peduncle Evaluated with Magnetic Resonance Imaging. <i>Neuroscience</i> , 2020, 439, 255-267.	1.1	11
14	Long-Term Improvement of Parkinson Disease Motor Symptoms Derived From Lesions of Prelemniscal Fiber Tract Components. <i>Operative Neurosurgery</i> , 2020, 19, 539-550.	0.4	5
15	Network-based atrophy modeling in the common epilepsies: A worldwide ENIGMA study. <i>Science Advances</i> , 2020, 6, .	4.7	97
16	White matter abnormalities across different epilepsy syndromes in adults: an ENIGMA-Epilepsy study. <i>Brain</i> , 2020, 143, 2454-2473.	3.7	123
17	Propylparaben Reduces the Long-Term Consequences in Hippocampus Induced by Traumatic Brain Injury in Rats: Its Implications as Therapeutic Strategy to Prevent Neurodegenerative Diseases. <i>Journal of Alzheimer's Disease</i> , 2020, 82, 1-12.	1.2	5
18	Sodium Cromoglycate Decreases Sensorimotor Impairment and Hippocampal Alterations Induced by Severe Traumatic Brain Injury in Rats. <i>Journal of Neurotrauma</i> , 2020, 37, 2595-2603.	1.7	9

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19	Demyelination associated with chronic arsenic exposure in Wistar rats. <i>Toxicology and Applied Pharmacology</i> , 2020, 393, 114955.	1.3	13
20	Multidimensional associations between cognition and connectome organization in temporal lobe epilepsy. <i>NeuroImage</i> , 2020, 213, 116706.	2.1	58
21	Memory deficits in Sprague Dawley rats with spontaneous ventriculomegaly. <i>Brain and Behavior</i> , 2020, 10, e01711.	1.0	8
22	Maximum smoothness consistent unwrapping of n-dimensional phase fields. <i>Optics and Lasers in Engineering</i> , 2020, 130, 106087.	2.0	2
23	Histological validation of per-bundle water diffusion metrics within a region of fiber crossing following axonal degeneration. <i>NeuroImage</i> , 2019, 201, 116013.	2.1	21
24	Discerning the functional networks behind processing of music and speech through human vocalizations. <i>PLoS ONE</i> , 2019, 14, e0222796.	1.1	13
25	Histological and diffusion-weighted magnetic resonance imaging data from normal and degenerated optic nerve and chiasm of the rat. <i>Data in Brief</i> , 2019, 26, 104399.	0.5	1
26	Imaging White Matter Pathology in Epilepsy. , 2019, , 68-76.		0
27	On the existence of mechanoreceptors within the neurovascular unit of the mammalian brain. <i>Brain Structure and Function</i> , 2019, 224, 2247-2267.	1.2	2
28	TRPV4 inhibition prevents increased water diffusion and blood-retina barrier breakdown in the retina of streptozotocin-induced diabetic mice. <i>PLoS ONE</i> , 2019, 14, e0212158.	1.1	17
29	Structural brain abnormalities in the common epilepsies assessed in a worldwide ENIGMA study. <i>Brain</i> , 2018, 141, 391-408.	3.7	352
30	Histological and MRI markers of white matter damage in focal epilepsy. <i>Epilepsy Research</i> , 2018, 140, 29-38.	0.8	52
31	Association of white matter diffusion characteristics and cognitive deficits in temporal lobe epilepsy. <i>Epilepsy and Behavior</i> , 2018, 79, 138-145.	0.9	46
32	Anatomic characterization of prelemniscal radiations by probabilistic tractography: implications in Parkinson's disease. <i>Brain Structure and Function</i> , 2017, 222, 71-81.	1.2	19
33	The rat corticospinal system is functionally and anatomically segregated. <i>Brain Structure and Function</i> , 2017, 222, 3945-3958.	1.2	17
34	Tactile object categories can be decoded from the parietal and lateral-occipital cortices. <i>Neuroscience</i> , 2017, 352, 226-235.	1.1	14
35	Our Faces in the Dog's Brain: Functional Imaging Reveals Temporal Cortex Activation during Perception of Human Faces. <i>PLoS ONE</i> , 2016, 11, e0149431.	1.1	70
36	Progressive contralateral hippocampal atrophy following Temporal Lobe Epilepsy Surgery (TLS). <i>Canadian Journal of Neurological Sciences</i> , 2015, 42, S26-S27.	0.3	0

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37	Metabolic Changes Induced by Electrical Stimulation of Prelemniscal Radiations for the Treatment of Parkinson Disease. <i>Stereotactic and Functional Neurosurgery</i> , 2015, 93, 333-341.	0.8	7
38	The specificity of neural responses to music and their relation to voice processing: An fMRI-adaptation study. <i>Neuroscience Letters</i> , 2015, 593, 35-39.	1.0	19
39	Fear across the senses: brain responses to music, vocalizations and facial expressions. <i>Social Cognitive and Affective Neuroscience</i> , 2015, 10, 399-407.	1.5	61
40	Child overweight and obesity are associated with reduced executive cognitive performance and brain alterations: a magnetic resonance imaging study in Mexican children. <i>Pediatric Obesity</i> , 2015, 10, 196-204.	1.4	78
41	White matter in temporal lobe epilepsy: clinico-pathological correlates of water diffusion abnormalities. <i>Quantitative Imaging in Medicine and Surgery</i> , 2015, 5, 264-78.	1.1	53
42	Correlations between Limbic White Matter and Cognitive Function in Temporal-Lobe Epilepsy, Preliminary Findings. <i>Frontiers in Aging Neuroscience</i> , 2014, 6, 142.	1.7	18
43	Music Perception: Information Flow Within the Human Auditory Cortices. <i>Advances in Experimental Medicine and Biology</i> , 2014, 829, 293-303.	0.8	8
44	A macroscopic view of microstructure: Using diffusion-weighted images to infer damage, repair, and plasticity of white matter. <i>Neuroscience</i> , 2014, 276, 14-28.	1.1	104
45	Sustained attention to spontaneous thumb sensations activates brain somatosensory and other proprioceptive areas. <i>Brain and Cognition</i> , 2014, 87, 86-96.	0.8	38
46	The parietal cortices participate in encoding, short-term memory, and decision-making related to tactile shape. <i>Journal of Neurophysiology</i> , 2014, 112, 1894-1902.	0.9	10
47	Music listening engages specific cortical regions within the temporal lobes: Differences between musicians and non-musicians. <i>Cortex</i> , 2014, 59, 126-137.	1.1	85
48	Correlation between Corpus Callosum Sub-Segmental Area and Cognitive Processes in School-Age Children. <i>PLoS ONE</i> , 2014, 9, e104549.	1.1	13
49	The acute phase of Wallerian degeneration: Longitudinal diffusion tensor imaging of the fornix following temporal lobe surgery. <i>NeuroImage</i> , 2013, 74, 128-139.	2.1	52
50	Diffusion Weighted Image Denoising Using Overcomplete Local PCA. <i>PLoS ONE</i> , 2013, 8, e73021.	1.1	299
51	Probabilistic tractography of the posterior subthalamic area in Parkinson's disease patients. <i>Journal of Biomedical Science and Engineering</i> , 2013, 06, 381-390.	0.2	13
52	Spatial patterns of water diffusion along white matter tracts in temporal lobe epilepsy. <i>Neurology</i> , 2012, 79, 455-462.	1.5	111
53	Mesial temporal sclerosis is linked with more widespread white matter changes in temporal lobe epilepsy. <i>NeuroImage: Clinical</i> , 2012, 1, 99-105.	1.4	59
54	Diffusion Tensor Imaging and Colored Fractional Anisotropy Mapping of the Ventralis Intermedius Nucleus of the Thalamus. <i>Neurosurgery</i> , 2011, 69, 1124-1130.	0.6	44

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55	Distinct white matter abnormalities in different idiopathic generalized epilepsy syndromes. <i>Epilepsia</i> , 2011, 52, 2267-2275.	2.6	55
56	Corpus Callosum and Cingulum Tractography in Parkinson's Disease. <i>Canadian Journal of Neurological Sciences</i> , 2010, 37, 595-600.	0.3	47
57	Cortical thickness analysis in temporal lobe epilepsy. <i>Neurology</i> , 2010, 74, 1776-1784.	1.5	193
58	Combined structural and neurochemical evaluation of the corticospinal tract in amyotrophic lateral sclerosis. <i>Amyotrophic Lateral Sclerosis and Other Motor Neuron Disorders</i> , 2010, 11, 157-165.	2.3	48
59	<i>In Vivo</i> Diffusion Tensor Imaging and Histopathology of the Fimbria-Fornix in Temporal Lobe Epilepsy. <i>Journal of Neuroscience</i> , 2010, 30, 996-1002.	1.7	192
60	Mapping Anatomical Connectivity Patterns of Human Cerebral Cortex Using In Vivo Diffusion Tensor Imaging Tractography. <i>Cerebral Cortex</i> , 2009, 19, 524-536.	1.6	979
61	White-matter diffusion abnormalities in temporal-lobe epilepsy with and without mesial temporal sclerosis. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2009, 80, 312-319.	0.9	165
62	Thalamic diffusion and volumetry in temporal lobe epilepsy with and without mesial temporal sclerosis. <i>Epilepsy Research</i> , 2008, 80, 184-193.	0.8	42
63	Insights into the sequence of structural consequences of convulsive status epilepticus: A longitudinal MRI study. <i>Epilepsia</i> , 2008, 49, 1941-1945.	2.6	18
64	Diffusion tensor imaging tractography and reliability analysis for limbic and paralimbic white matter tracts. <i>Psychiatry Research - Neuroimaging</i> , 2008, 164, 132-142.	0.9	96
65	Mapping limbic network organization in temporal lobe epilepsy using morphometric correlations: Insights on the relation between mesiotemporal connectivity and cortical atrophy. <i>NeuroImage</i> , 2008, 42, 515-524.	2.1	174
66	Motor Cortex and Spinal Degeneration in Multisystem Atrophy: A Multimodal Study. <i>Canadian Journal of Neurological Sciences</i> , 2008, 35, 658-660.	0.3	1
67	Bilateral White Matter Diffusion Changes Persist after Epilepsy Surgery. <i>Epilepsia</i> , 2007, 48, 931-940.	2.6	93
68	Spatial Profiling of the Corticospinal Tract in Amyotrophic Lateral Sclerosis Using Diffusion Tensor Imaging. <i>Journal of Neuroimaging</i> , 2007, 17, 234-240.	1.0	40
69	Diffusion tensor imaging of time-dependent axonal and myelin degradation after corpus callosotomy in epilepsy patients. <i>NeuroImage</i> , 2006, 32, 1090-1099.	2.1	250
70	Extratemporal White Matter Abnormalities in Mesial Temporal Lobe Epilepsy Demonstrated with Diffusion Tensor Imaging. <i>Epilepsia</i> , 2006, 47, 1360-1363.	2.6	161
71	Bilateral limbic diffusion abnormalities in unilateral temporal lobe epilepsy. <i>Annals of Neurology</i> , 2005, 57, 188-196.	2.8	242
72	Imaging brain connectivity in children with diverse reading ability. <i>NeuroImage</i> , 2005, 25, 1266-1271.	2.1	259

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73	Diffusion tensor tractography of the limbic system. American Journal of Neuroradiology, 2005, 26, 2267-74.	1.2	202