Luis Colon-Perez

List of Publications by Year
in descending order

51 papers	1,499 citations	304743 22 h-index	330143 37 g-index

56 all docs	56 docs citations	56 times ranked	2173 citing authors

#	Article	IF	Citations
1	The future of neuroimaging and gut-brain axis research for substance use disorders. Brain Research, 2022, 1781, 147835.	2.2	3
2	Hippocampal dentate gyrus integrity revealed with ultrahigh resolution diffusion imaging predicts memory performance in older adults. Hippocampus, 2022, 32, 627-638.	1.9	3
3	Diffusion magnetic resonance imaging-derived free water detects neurodegenerative pattern induced by interferon-Î³. Brain Structure and Function, 2020, 225, 427-439.	2.3	31
4	Differential Effect of Repeated Lipopolysaccharide Treatment and Aging on Hippocampal Function and Biomarkers of Hippocampal Senescence. Molecular Neurobiology, 2020, 57, 4045-4059.	4.0	7
5	Contextual experience modifies functional connectome indices of topological strength and efficiency. Scientific Reports, 2020, 10, 19843.	3.3	9
6	Mechanism of Manganese Dysregulation of Dopamine Neuronal Activity. Journal of Neuroscience, 2020, 40, 5871-5891.	3.6	29
7	Su1605 â€“ Alterations in Brain Functional Connectivity in an Animal Model of Colitis. Gastroenterology, 2019, 156, S-580.	1.3	0
8	Neurite orientation dispersion and density imaging reveals white matter and hippocampal microstructure changes produced by Interleukin-6 in the TgCRND8 mouse model of amyloidosis. NeuroImage, 2019, 202, 116138.	4.2	34
9	Free-water imaging of the hippocampus is a sensitive marker of Alzheimer's disease. NeuroImage: Clinical, 2019, 24, 101985.	2.7	35
10	Sustained Captoprilâ€Induced Reduction in Blood Pressure Is Associated With Alterations in Gutâ€Brain Axis in the Spontaneously Hypertensive Rat. Journal of the American Heart Association, 2019, 8, e010721.	3.7	63
11	Detection of axonal degeneration in a mouse model of Huntingtonâ€™s disease: comparison between diffusion tensor imaging and anomalous diffusion metrics. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2019, 32, 461-471.	2.0	28
12	Oxytocin Receptors Are Expressed by Glutamatergic Prefrontal Cortical Neurons That Selectively Modulate Social Recognition. Journal of Neuroscience, 2019, 39, 3249-3263.	3.6	78
13	Impaired butyrate absorption in the proximal colon, low serum butyrate and diminished central effects of butyrate on blood pressure in spontaneously hypertensive rats. Acta Physiologica, 2019, 226, e13256.	3.8	69
14	Multiscale Imaging Reveals Aberrant Functional Connectome Organization and Elevated Dorsal StriatalArcExpression in Advanced Age. ENeuro, 2019, 6, ENEURO.0047-19.2019.	1.9	12
15	Blockade of nifedipineâ€sensitive Ca 2+ channels decreases manganese accumulation on the dopamine neurons. FASEB Journal, 2019, 33, 813.12.	0.5	0
16	Abstract 084: Gut Dysbiosis Impairs Serotonergic Gut-Brain Axis and Increases Blood Pressure. Hypertension, 2019, 74, .	2.7	0
17	Early life social stress and resting state functional connectivity in postpartum rat anterior cingulate circuits. Journal of Affective Disorders, 2018, 229, 213-223.	4.1	19
18	MEMRI reveals altered activity in brain regions associated with anxiety, locomotion, and cardiovascular reactivity on the elevated plus maze in the WKY vs SHR rats. Brain Imaging and Behavior, 2018, 12, 1318-1331.	2.1	10

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19	Menthol enhances nicotine-induced locomotor sensitization and in vivo functional connectivity in adolescence. Journal of Psychopharmacology, 2018, 32, 332-343.	4.0	20
20	Multifunctional Nanotherapeutics for the Treatment of neuroAIDS in Drug Abusers. Scientific Reports, 2018, 8, 12991.	3.3	26
21	Cognition and connectomes in nondementia idiopathic Parkinsonâ€™s disease. Network Neuroscience, 2018, 2, 106-124.	2.6	12
22	Editorial: Novel Tools for the Study of Structural and Functional Networks in the Brain. Frontiers in Physics, 2018, 6, .	2.1	0
23	Functional connectivity, behavioral and dopaminergic alterations 24 hours following acute exposure to synthetic bath salt drug methylenedioxypyrovalerone. Neuropharmacology, 2018, 137, 178-193.	4.1	27
24	Functional Connectivity of Chronic Cocaine Use Reveals Progressive Neuroadaptations in Neocortical, Striatal, and Limbic Networks. ENeuro, 2018, 5, ENEURO.0081-18.2018.	1.9	36
25	Abstract 077: Captopril-Induced Sustained Reduction in Blood Pressure is Associated With Alterations in Gut-Brain Axis in the Spontaneously Hypertensive Rats. Hypertension, 2018, 72, .	2.7	0
26	Metal Transporter Zip14 (Slc39a14) Deletion in Mice Increases Manganese Deposition and Produces Neurotoxic Signatures and Diminished Motor Activity. Journal of Neuroscience, 2017, 37, 5996-6006.	3.6	87
27	The hippocampus: detailed assessment of normative two-dimensional measurements, signal intensity, and subfield conspicuity on routine 3T T2-weighted sequences. Surgical and Radiologic Anatomy, 2017, 39, 1149-1159.	1.2	8
28	Electroacupuncture Promotes Central Nervous System-Dependent Release of Mesenchymal Stem Cells. Stem Cells, 2017, 35, 1303-1315.	3.2	37
29	High magnetic field fmri compliant carbon nanofiber neural probes. , 2017, , .		2
30	Forebrain knock-out of torsinA reduces striatal free-water and impairs whole-brain functional connectivity in a symptomatic mouse model of DYT1 dystonia. Neurobiology of Disease, 2017, 106, 124-132.	4.4	19
31	A Single Angiotensin II Hypertensive Stimulus Is Associated with Prolonged Neuronal and Immune System Activation in Wistar-Kyoto Rats. Frontiers in Physiology, 2017, 8, 592.	2.8	38
32	Dopamine homeostasis brain functional connectivity in reward deficiency syndrome. Frontiers in Bioscience - Landmark, 2017, 22, 669-691.	3.0	88
33	Enhanced functional connectivity and volume between cognitive and reward centers of naÃ¯ve rodent brain produced by pro-dopaminergic agent KB220Z. PLoS ONE, 2017, 12, e0174774.	2.5	92
34	Small Worldness in Dense and Weighted Connectomes. Frontiers in Physics, 2016, 4, .	2.1	10
35	The Psychoactive Designer Drug and Bath Salt Constituent MDPV Causes Widespread Disruption of Brain Functional Connectivity. Neuropsychopharmacology, 2016, 41, 2352-2365.	5.4	66
36	A fractal derivative model for the characterization of anomalous diffusion in magnetic resonance imaging. Communications in Nonlinear Science and Numerical Simulation, 2016, 39, 529-537.	3.3	93

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37	In vivo imaging reveals impaired connectivity across cortical and subcortical networks in a mouse model of DYT1 dystonia. Neurobiology of Disease, 2016, 95, 35-45.	4.4	29
38	Depressed basal hypothalamic neuronal activity in type-1 diabetic mice is correlated with proinflammatory secretion of HMBG1. Neuroscience Letters, 2016, 615, 21-27.	2.1	11
39	A majority rule approach for region-of-interest-guided streamline fiber tractography. Brain Imaging and Behavior, 2016, 10, 1137-1147.	2.1	20
40	Test-retest reliability of high angular resolution diffusion imaging acquisition within medial temporal lobe connections assessed via tract based spatial statistics, probabilistic tractography and a novel graph theory metric. Brain Imaging and Behavior, 2016, 10, 533-547.	2.1	13
41	Abstract P156: Fiber-rich Diet Suppresses Lactobacillus And Increases Blood Pressure In The Shr Independently Of T-lymphocyte Immune Responses. Hypertension, 2016, 68, .	2.7	0
42	High-field magnetic resonance imaging of the human temporal lobe. NeuroImage: Clinical, 2015, 9, 58-68.	2.7	19
43	Dimensionless, Scale Invariant, Edge Weight Metric for the Study of Complex Structural Networks. PLoS ONE, 2015, 10, e0131493.	2.5	14
44	Classification of Fractional Order Biomarkers for Anomalous Diffusion Using q-Space Entropy. Critical Reviews in Biomedical Engineering, 2014, 42, 63-83.	0.9	3
45	On random walks and entropy in diffusionâ€weighted magnetic resonance imaging studies of neural tissue. Magnetic Resonance in Medicine, 2014, 71, 617-627.	3.0	97
46	Fractional order measures of anomalous diffusion in healthy aging of neural tissue. , 2014, , .		0
47	On random walks and entropy in diffusion-weighted magnetic resonance imaging studies of neural tissue. Magnetic Resonance in Medicine, 2014, 71, spcone-spcone.	3.0	1
48	Generalized Framework to Study Brain Weighted Networks. Biophysical Journal, 2013, 104, 164a.	0.5	0
49	Characterization of anomalous diffusion in porous biological tissues using fractional order derivatives and entropy. Microporous and Mesoporous Materials, 2013, 178, 39-43.	4.4	136
50	Imaging White Matter in Human Brainstem. Frontiers in Human Neuroscience, 2013, 7, 400.	2.0	36
51	Magnetic resonance imaging and volumetric analysis: Novel tools to study the effects of thyroid hormone disruption on white matter development. NeuroToxicology, 2012, 33, 1322-1329.	3.0	21