

Luis Colon-Perez

List of Publications by Year in descending order

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Version: 2024-02-01

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	Characterization of anomalous diffusion in porous biological tissues using fractional order derivatives and entropy. <i>Microporous and Mesoporous Materials</i> , 2013, 178, 39-43.	4.4	136
2	On random walks and entropy in diffusion-weighted magnetic resonance imaging studies of neural tissue. <i>Magnetic Resonance in Medicine</i> , 2014, 71, 617-627.	3.0	97
3	A fractal derivative model for the characterization of anomalous diffusion in magnetic resonance imaging. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2016, 39, 529-537.	3.3	93
4	Enhanced functional connectivity and volume between cognitive and reward centers of naïve rodent brain produced by pro-dopaminergic agent KB220Z. <i>PLoS ONE</i> , 2017, 12, e0174774.	2.5	92
5	Dopamine homeostasis brain functional connectivity in reward deficiency syndrome. <i>Frontiers in Bioscience - Landmark</i> , 2017, 22, 669-691.	3.0	88
6	Metal Transporter <i>Zip14</i> (<i>Slc39a14</i>) Deletion in Mice Increases Manganese Deposition and Produces Neurotoxic Signatures and Diminished Motor Activity. <i>Journal of Neuroscience</i> , 2017, 37, 5996-6006.	3.6	87
7	Oxytocin Receptors Are Expressed by Glutamatergic Prefrontal Cortical Neurons That Selectively Modulate Social Recognition. <i>Journal of Neuroscience</i> , 2019, 39, 3249-3263.	3.6	78
8	Impaired butyrate absorption in the proximal colon, low serum butyrate and diminished central effects of butyrate on blood pressure in spontaneously hypertensive rats. <i>Acta Physiologica</i> , 2019, 226, e13256.	3.8	69
9	The Psychoactive Designer Drug and Bath Salt Constituent MDPV Causes Widespread Disruption of Brain Functional Connectivity. <i>Neuropsychopharmacology</i> , 2016, 41, 2352-2365.	5.4	66
10	Sustained Captopril-Induced Reduction in Blood Pressure Is Associated With Alterations in Gut-Brain Axis in the Spontaneously Hypertensive Rat. <i>Journal of the American Heart Association</i> , 2019, 8, e010721.	3.7	63
11	A Single Angiotensin II Hypertensive Stimulus Is Associated with Prolonged Neuronal and Immune System Activation in Wistar-Kyoto Rats. <i>Frontiers in Physiology</i> , 2017, 8, 592.	2.8	38
12	Electroacupuncture Promotes Central Nervous System-Dependent Release of Mesenchymal Stem Cells. <i>Stem Cells</i> , 2017, 35, 1303-1315.	3.2	37
13	Imaging White Matter in Human Brainstem. <i>Frontiers in Human Neuroscience</i> , 2013, 7, 400.	2.0	36
14	Functional Connectivity of Chronic Cocaine Use Reveals Progressive Neuroadaptations in Neocortical, Striatal, and Limbic Networks. <i>ENeuro</i> , 2018, 5, ENEURO.0081-18.2018.	1.9	36
15	Free-water imaging of the hippocampus is a sensitive marker of Alzheimer's disease. <i>NeuroImage: Clinical</i> , 2019, 24, 101985.	2.7	35
16	Neurite orientation dispersion and density imaging reveals white matter and hippocampal microstructure changes produced by Interleukin-6 in the TgCRND8 mouse model of amyloidosis. <i>NeuroImage</i> , 2019, 202, 116138.	4.2	34
17	Diffusion magnetic resonance imaging-derived free water detects neurodegenerative pattern induced by interferon- β . <i>Brain Structure and Function</i> , 2020, 225, 427-439.	2.3	31
18	In vivo imaging reveals impaired connectivity across cortical and subcortical networks in a mouse model of DYT1 dystonia. <i>Neurobiology of Disease</i> , 2016, 95, 35-45.	4.4	29

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19	Mechanism of Manganese Dysregulation of Dopamine Neuronal Activity. <i>Journal of Neuroscience</i> , 2020, 40, 5871-5891.	3.6	29
20	Detection of axonal degeneration in a mouse model of Huntington's disease: comparison between diffusion tensor imaging and anomalous diffusion metrics. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2019, 32, 461-471.	2.0	28
21	Functional connectivity, behavioral and dopaminergic alterations 24 hours following acute exposure to synthetic bath salt drug methylenedioxypyrovalerone. <i>Neuropharmacology</i> , 2018, 137, 178-193.	4.1	27
22	Multifunctional Nanotherapeutics for the Treatment of neuroAIDS in Drug Abusers. <i>Scientific Reports</i> , 2018, 8, 12991.	3.3	26
23	Magnetic resonance imaging and volumetric analysis: Novel tools to study the effects of thyroid hormone disruption on white matter development. <i>NeuroToxicology</i> , 2012, 33, 1322-1329.	3.0	21
24	A majority rule approach for region-of-interest-guided streamline fiber tractography. <i>Brain Imaging and Behavior</i> , 2016, 10, 1137-1147.	2.1	20
25	Menthol enhances nicotine-induced locomotor sensitization and in vivo functional connectivity in adolescence. <i>Journal of Psychopharmacology</i> , 2018, 32, 332-343.	4.0	20
26	High-field magnetic resonance imaging of the human temporal lobe. <i>NeuroImage: Clinical</i> , 2015, 9, 58-68.	2.7	19
27	Forebrain knock-out of torsinA reduces striatal free-water and impairs whole-brain functional connectivity in a symptomatic mouse model of DYT1 dystonia. <i>Neurobiology of Disease</i> , 2017, 106, 124-132.	4.4	19
28	Early life social stress and resting state functional connectivity in postpartum rat anterior cingulate circuits. <i>Journal of Affective Disorders</i> , 2018, 229, 213-223.	4.1	19
29	Dimensionless, Scale Invariant, Edge Weight Metric for the Study of Complex Structural Networks. <i>PLoS ONE</i> , 2015, 10, e0131493.	2.5	14
30	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. <i>Brain Imaging and Behavior</i> , 2016, 10, 533-547.	2.1	13
31	Cognition and connectomes in nondementia idiopathic Parkinson's disease. <i>Network Neuroscience</i> , 2018, 2, 106-124.	2.6	12
32	Multiscale Imaging Reveals Aberrant Functional Connectome Organization and Elevated Dorsal Striatal Arc Expression in Advanced Age. <i>ENeuro</i> , 2019, 6, ENEURO.0047-19.2019.	1.9	12
33	Depressed basal hypothalamic neuronal activity in type-1 diabetic mice is correlated with proinflammatory secretion of HMBG1. <i>Neuroscience Letters</i> , 2016, 615, 21-27.	2.1	11
34	Small Worldness in Dense and Weighted Connectomes. <i>Frontiers in Physics</i> , 2016, 4, .	2.1	10
35	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. <i>Brain Imaging and Behavior</i> , 2018, 12, 1318-1331.	2.1	10
36	Contextual experience modifies functional connectome indices of topological strength and efficiency. <i>Scientific Reports</i> , 2020, 10, 19843.	3.3	9

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37	The hippocampus: detailed assessment of normative two-dimensional measurements, signal intensity, and subfield conspicuity on routine 3T T2-weighted sequences. <i>Surgical and Radiologic Anatomy</i> , 2017, 39, 1149-1159.	1.2	8
38	Differential Effect of Repeated Lipopolysaccharide Treatment and Aging on Hippocampal Function and Biomarkers of Hippocampal Senescence. <i>Molecular Neurobiology</i> , 2020, 57, 4045-4059.	4.0	7
39	Classification of Fractional Order Biomarkers for Anomalous Diffusion Using q-Space Entropy. <i>Critical Reviews in Biomedical Engineering</i> , 2014, 42, 63-83.	0.9	3
40	The future of neuroimaging and gut-brain axis research for substance use disorders. <i>Brain Research</i> , 2022, 1781, 147835.	2.2	3
41	Hippocampal dentate gyrus integrity revealed with ultrahigh resolution diffusion imaging predicts memory performance in older adults. <i>Hippocampus</i> , 2022, 32, 627-638.	1.9	3
42	High magnetic field fmri compliant carbon nanofiber neural probes. , 2017, , .		2
43	On random walks and entropy in diffusion-weighted magnetic resonance imaging studies of neural tissue. <i>Magnetic Resonance in Medicine</i> , 2014, 71, spcone-spcone.	3.0	1
44	Generalized Framework to Study Brain Weighted Networks. <i>Biophysical Journal</i> , 2013, 104, 164a.	0.5	0
45	Fractional order measures of anomalous diffusion in healthy aging of neural tissue. , 2014, , .		0
46	Editorial: Novel Tools for the Study of Structural and Functional Networks in the Brain. <i>Frontiers in Physics</i> , 2018, 6, .	2.1	0
47	Su1605 " Alterations in Brain Functional Connectivity in an Animal Model of Colitis. <i>Gastroenterology</i> , 2019, 156, S-580.	1.3	0
48	Abstract P156: Fiber-rich Diet Suppresses Lactobacillus And Increases Blood Pressure In The Shr Independently Of T-lymphocyte Immune Responses. <i>Hypertension</i> , 2016, 68, .	2.7	0
49	Abstract 077: Captopril-Induced Sustained Reduction in Blood Pressure is Associated With Alterations in Gut-Brain Axis in the Spontaneously Hypertensive Rats. <i>Hypertension</i> , 2018, 72, .	2.7	0
50	Blockade of nifedipine-sensitive Ca ²⁺ channels decreases manganese accumulation on the dopamine neurons. <i>FASEB Journal</i> , 2019, 33, 813.12.	0.5	0
51	Abstract 084: Gut Dysbiosis Impairs Serotonergic Gut-Brain Axis and Increases Blood Pressure. <i>Hypertension</i> , 2019, 74, .	2.7	0