

Santiago Canals

List of Publications by Citations

Source: <https://exaly.com/author-pdf/8222726/santiago-canals-publications-by-citations.pdf>

Version: 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

71
papers

2,566
citations

29
h-index

50
g-index

79
ext. papers

2,992
ext. citations

6
avg, IF

4.68
L-index

| # | Paper | IF | Citations |
|----|--|------|-----------|
| 71 | Parkin gene inactivation alters behaviour and dopamine neurotransmission in the mouse. <i>Human Molecular Genetics</i> , 2003 , 12, 2277-91 | 5.6 | 403 |
| 70 | ErbB4 deletion from fast-spiking interneurons causes schizophrenia-like phenotypes. <i>Neuron</i> , 2013 , 79, 1152-68 | 13.9 | 193 |
| 69 | Avoiding catastrophic failure in correlated networks of networks. <i>Nature Physics</i> , 2014 , 10, 762-767 | 16.2 | 184 |
| 68 | Functional MRI evidence for LTP-induced neural network reorganization. <i>Current Biology</i> , 2009 , 19, 398-403 | 10.3 | 85 |
| 67 | Role of extracellular signal-regulated protein kinase in neuronal cell death induced by glutathione depletion in neuron/glia mesencephalic cultures. <i>Journal of Neurochemistry</i> , 2004 , 91, 667-82 | 6 | 84 |
| 66 | CBP is required for environmental enrichment-induced neurogenesis and cognitive enhancement. <i>EMBO Journal</i> , 2011 , 30, 4287-98 | 13 | 79 |
| 65 | Nitric oxide triggers the toxicity due to glutathione depletion in midbrain cultures through 12-lipoxygenase. <i>Journal of Biological Chemistry</i> , 2003 , 278, 21542-9 | 5.4 | 77 |
| 64 | Mapping of functional brain activity in freely behaving rats during voluntary running using manganese-enhanced MRI: implication for longitudinal studies. <i>NeuroImage</i> , 2010 , 49, 2544-55 | 7.9 | 76 |
| 63 | Smart magnetic resonance imaging agents that sense extracellular calcium fluctuations. <i>ChemBioChem</i> , 2008 , 9, 1729-34 | 3.8 | 76 |
| 62 | Longitudinal depolarization gradients along the somatodendritic axis of CA1 pyramidal cells: a novel feature of spreading depression. <i>Journal of Neurophysiology</i> , 2005 , 94, 943-51 | 3.2 | 70 |
| 61 | Magnetic resonance imaging of cortical connectivity in vivo. <i>NeuroImage</i> , 2008 , 40, 458-472 | 7.9 | 65 |
| 60 | Finding influential nodes for integration in brain networks using optimal percolation theory. <i>Nature Communications</i> , 2018 , 9, 2274 | 17.4 | 58 |
| 59 | Widespread vestibular activation of the rodent cortex. <i>Journal of Neuroscience</i> , 2015 , 35, 5926-34 | 6.6 | 55 |
| 58 | The role of astroglia on the survival of dopamine neurons. <i>Molecular Neurobiology</i> , 2002 , 25, 245-63 | 6.2 | 55 |
| 57 | Glutathione depletion switches nitric oxide neurotrophic effects to cell death in midbrain cultures: implications for Parkinson's disease. <i>Journal of Neurochemistry</i> , 2001 , 79, 1183-95 | 6 | 54 |
| 56 | Metabolic challenge to glia activates an adenosine-mediated safety mechanism that promotes neuronal survival by delaying the onset of spreading depression waves. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2008 , 28, 1835-44 | 7.3 | 52 |
| 55 | Electric stimulation fMRI of the perforant pathway to the rat hippocampus. <i>Magnetic Resonance Imaging</i> , 2008 , 26, 978-86 | 3.3 | 48 |

| | | | |
|----|--|------|----|
| 54 | Behavioral, electrophysiological and histopathological consequences of systemic manganese administration in MEMRI. <i>Magnetic Resonance Imaging</i> , 2010 , 28, 1165-74 | 3.3 | 45 |
| 53 | Neurotrophic and neurotoxic effects of nitric oxide on fetal midbrain cultures. <i>Journal of Neurochemistry</i> , 2001 , 76, 56-68 | 6 | 44 |
| 52 | Functional MRI of long-term potentiation: imaging network plasticity. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2014 , 369, 20130152 | 5.8 | 41 |
| 51 | Alcoholic liver disease: Utility of animal models. <i>World Journal of Gastroenterology</i> , 2018 , 24, 5063-5075 | 5.6 | 41 |
| 50 | Adult newborn neurons are involved in learning acquisition and long-term memory formation: the distinct demands on temporal neurogenesis of different cognitive tasks. <i>Hippocampus</i> , 2015 , 25, 51-61 | 3.5 | 39 |
| 49 | Selective and persistent activation of extracellular signal-regulated protein kinase by nitric oxide in glial cells induces neuronal degeneration in glutathione-depleted midbrain cultures. <i>Molecular and Cellular Neurosciences</i> , 2003 , 24, 1012-26 | 4.8 | 39 |
| 48 | Amelioration of ischemic brain damage by peritoneal dialysis. <i>Journal of Clinical Investigation</i> , 2013 , 123, 4359-63 | 15.9 | 37 |
| 47 | Increased Dosage of High-Affinity Kainate Receptor Gene <i>grik4</i> Alters Synaptic Transmission and Reproduces Autism Spectrum Disorders Features. <i>Journal of Neuroscience</i> , 2015 , 35, 13619-28 | 6.6 | 36 |
| 46 | Thiolic antioxidants protect from nitric oxide-induced toxicity in fetal midbrain cultures. <i>Neuropharmacology</i> , 2002 , 43, 877-88 | 5.5 | 35 |
| 45 | Brain activation induced by voluntary alcohol and saccharin drinking in rats assessed with manganese-enhanced magnetic resonance imaging. <i>Addiction Biology</i> , 2015 , 20, 1012-21 | 4.6 | 32 |
| 44 | Functional MRI in mice lacking IP3-dependent calcium signaling in astrocytes. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2014 , 34, 1599-603 | 7.3 | 30 |
| 43 | Incubation of neural alcohol cue reactivity after withdrawal and its blockade by naltrexone. <i>Addiction Biology</i> , 2020 , 25, e12717 | 4.6 | 30 |
| 42 | Effect of prenatal uterine position on male and female rats sexual behavior. <i>Physiology and Behavior</i> , 1999 , 67, 401-8 | 3.5 | 29 |
| 41 | Microstructural White Matter Alterations in Men With Alcohol Use Disorder and Rats With Excessive Alcohol Consumption During Early Abstinence. <i>JAMA Psychiatry</i> , 2019 , 76, 749-758 | 14.5 | 26 |
| 40 | Synaptically recruited apical currents are required to initiate axonal and apical spikes in hippocampal pyramidal cells: modulation by inhibition. <i>Journal of Neurophysiology</i> , 2005 , 93, 909-18 | 3.2 | 25 |
| 39 | Structural and functional, empirical and modeled connectivity in the cerebral cortex of the rat. <i>NeuroImage</i> , 2017 , 159, 170-184 | 7.9 | 24 |
| 38 | In vivo characterization of a smart MRI agent that displays an inverse response to calcium concentration. <i>ACS Chemical Neuroscience</i> , 2010 , 1, 819-28 | 5.7 | 24 |
| 37 | Frequency-Dependent Gating of Hippocampal-Neocortical Interactions. <i>Cerebral Cortex</i> , 2016 , 26, 2105-2114 | 5.14 | 23 |

| | | | |
|----|---|------|----|
| 36 | A steady-state model of spreading depression predicts the importance of an unknown conductance in specific dendritic domains. <i>Biophysical Journal</i> , 2007 , 92, 4216-32 | 2.9 | 20 |
| 35 | Glia-conditioned medium induces de novo synthesis of tyrosine hydroxylase and increases dopamine cell survival by differential signaling pathways. <i>Journal of Neuroscience Research</i> , 2003 , 73, 818-30 | 4.4 | 20 |
| 34 | Chronic alcohol consumption alters extracellular space geometry and transmitter diffusion in the brain. <i>Science Advances</i> , 2020 , 6, eaba0154 | 14.3 | 17 |
| 33 | High frequency neurons determine effective connectivity in neuronal networks. <i>NeuroImage</i> , 2018 , 166, 349-359 | 7.9 | 17 |
| 32 | L-DOPA and glia-conditioned medium have additive effects on tyrosine hydroxylase expression in human catecholamine-rich neuroblastoma NB69 cells. <i>Journal of Neurochemistry</i> , 2001 , 78, 535-45 | 6 | 16 |
| 31 | Nitric oxide induces differentiation in the NB69 human catecholamine-rich cell line. <i>Neuropharmacology</i> , 2000 , 39, 2090-100 | 5.5 | 16 |
| 30 | Different theta frameworks coexist in the rat hippocampus and are coordinated during memory-guided and novelty tasks. <i>ELife</i> , 2020 , 9, | 8.9 | 15 |
| 29 | Neurophysiological, metabolic and cellular compartments that drive neurovascular coupling and neuroimaging signals. <i>Frontiers in Neuroenergetics</i> , 2013 , 5, 3 | | 14 |
| 28 | Multi-modal MRI classifiers identify excessive alcohol consumption and treatment effects in the brain. <i>Addiction Biology</i> , 2017 , 22, 1459-1472 | 4.6 | 12 |
| 27 | Modulation of nucleus accumbens connectivity by alcohol drinking and naltrexone in alcohol-preferring rats: A manganese-enhanced magnetic resonance imaging study. <i>European Neuropsychopharmacology</i> , 2016 , 26, 445-55 | 1.2 | 12 |
| 26 | Paradoxical augmented relapse in alcohol-dependent rats during deep-brain stimulation in the nucleus accumbens. <i>Translational Psychiatry</i> , 2016 , 6, e840 | 8.6 | 11 |
| 25 | Neurosurgery planning in rodents using a magnetic resonance imaging assisted framework to target experimentally defined networks. <i>Computer Methods and Programs in Biomedicine</i> , 2015 , 121, 66-76 | 6.9 | 10 |
| 24 | Biocytin-derived MRI contrast agent for longitudinal brain connectivity studies. <i>ACS Chemical Neuroscience</i> , 2011 , 2, 578-87 | 5.7 | 8 |
| 23 | KAT3-dependent acetylation of cell type-specific genes maintains neuronal identity in the adult mouse brain. <i>Nature Communications</i> , 2020 , 11, 2588 | 17.4 | 8 |
| 22 | Improved neuronal tract tracing with stable biocytin-derived neuroimaging agents. <i>ACS Chemical Neuroscience</i> , 2010 , 1, 129-38 | 5.7 | 6 |
| 21 | On the role of the entorhinal cortex in the effective connectivity of the hippocampal formation. <i>Chaos</i> , 2017 , 27, 047401 | 3.3 | 5 |
| 20 | Mapping Functional Connectivity in the Rodent Brain Using Electric-Stimulation fMRI. <i>Methods in Molecular Biology</i> , 2018 , 1718, 117-134 | 1.4 | 5 |
| 19 | Unsupervised segmentation of brain regions with similar microstructural properties: application to alcoholism. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2013 , 2013, 1053-6 | 0.9 | 5 |

| | | | |
|----|---|-----|---|
| 18 | Mapping microglia and astrocytes activation in vivo using diffusion MRI | | 5 |
| 17 | Tuning noninvasive brain stimulation with MRI to cope with intersubject variability. <i>Current Opinion in Neurology</i> , 2016 , 29, 453-8 | 7.1 | 3 |
| 16 | Phenotyping the central nervous system of the embryonic mouse by magnetic resonance microscopy. <i>NeuroImage</i> , 2014 , 97, 95-106 | 7.9 | 3 |
| 15 | A Tangible Educative 3D Printed Atlas of the Rat Brain. <i>Materials</i> , 2018 , 11, | 3.5 | 3 |
| 14 | Detecting Alcohol-Induced Brain Damage Noninvasively Using Diffusion Tensor Imaging. <i>ACS Chemical Neuroscience</i> , 2019 , 10, 4187-4189 | 5.7 | 2 |
| 13 | Brain size regulations by cbp haploinsufficiency evaluated by in-vivo MRI based volumetry. <i>Scientific Reports</i> , 2015 , 5, 16256 | 4.9 | 2 |
| 12 | Different theta frameworks coexist in the hippocampus and are coordinated during memory-guided exploration and novelty detection | | 2 |
| 11 | Increased network centrality of the anterior insula in early abstinence from alcohol. <i>Addiction Biology</i> , 2021 , e13096 | 4.6 | 2 |
| 10 | Evaluating network brain connectivity in alcohol postdependent state using Network-Based Statistic. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2017 , 2017, 533-536 | 0.9 | 1 |
| 9 | Biocytin-Based Contrast Agents for Molecular Imaging: An Approach to Developing New In Vivo Neuroanatomical Tracers for MRI 2012 , | | 1 |
| 8 | Nitric Oxide and Dopamine Neurons. Implications for Parkinsons Disease. <i>Current Medicinal Chemistry - Central Nervous System Agents</i> , 2005 , 5, 193-205 | | 1 |
| 7 | Neuroimaging reveals functionally distinct neuronal networks associated with high-level alcohol consumption in two genetic rat models. <i>Behavioural Pharmacology</i> , 2021 , 32, 229-238 | 2.4 | 1 |
| 6 | Low-Power Lossless Data Compression for Wireless Brain Electrophysiology. <i>Sensors</i> , 2022 , 22, 3676 | 3.8 | 1 |
| 5 | Inferring correlations associated to causal interactions in brain signals using autoregressive models. <i>Scientific Reports</i> , 2019 , 9, 17041 | 4.9 | 0 |
| 4 | Functional MRI of Synaptic Plasticity. <i>Handbook of Behavioral Neuroscience</i> , 2018 , 28, 441-456 | 0.7 | 0 |
| 3 | From a systems view to spotting a hidden island: A narrative review implicating insula function in alcoholism.. <i>Neuropharmacology</i> , 2022 , 108989 | 5.5 | 0 |
| 2 | TherMouseDuino: An affordable Open-Source temperature control system for functional magnetic resonance imaging experimentation with mice. <i>Magnetic Resonance Imaging</i> , 2019 , 58, 67-75 | 3.3 | |
| 1 | How Do Interconnected Neuronal Networks Adjust to External Stimulation: Parametric Studies of DBS-FMRI. <i>Biosystems and Biorobotics</i> , 2017 , 85-89 | 0.2 | |

