

Santiago Canals

List of Publications by Year in Descending Order

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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	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
70	Low-Power Lossless Data Compression for Wireless Brain Electrophysiology. <i>Sensors</i> , 2022 , 22, 3676	3.8	1
69	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
68	Increased network centrality of the anterior insula in early abstinence from alcohol. <i>Addiction Biology</i> , 2021 , e13096	4.6	2
67	Chronic alcohol consumption alters extracellular space geometry and transmitter diffusion in the brain. <i>Science Advances</i> , 2020 , 6, eaba0154	14.3	17
66	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
65	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
64	Incubation of neural alcohol cue reactivity after withdrawal and its blockade by naltrexone. <i>Addiction Biology</i> , 2020 , 25, e12717	4.6	30
63	Detecting Alcohol-Induced Brain Damage Noninvasively Using Diffusion Tensor Imaging. <i>ACS Chemical Neuroscience</i> , 2019 , 10, 4187-4189	5.7	2
62	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	
61	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
60	Inferring correlations associated to causal interactions in brain signals using autoregressive models. <i>Scientific Reports</i> , 2019 , 9, 17041	4.9	0
59	Mapping Functional Connectivity in the Rodent Brain Using Electric-Stimulation fMRI. <i>Methods in Molecular Biology</i> , 2018 , 1718, 117-134	1.4	5
58	Finding influential nodes for integration in brain networks using optimal percolation theory. <i>Nature Communications</i> , 2018 , 9, 2274	17.4	58
57	High frequency neurons determine effective connectivity in neuronal networks. <i>NeuroImage</i> , 2018 , 166, 349-359	7.9	17
56	Alcoholic liver disease: Utility of animal models. <i>World Journal of Gastroenterology</i> , 2018 , 24, 5063-5075	5.6	41
55	Functional MRI of Synaptic Plasticity. <i>Handbook of Behavioral Neuroscience</i> , 2018 , 28, 441-456	0.7	0

54	A Tangible Educative 3D Printed Atlas of the Rat Brain. <i>Materials</i> , 2018 , 11,	3.5	3
53	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
52	On the role of the entorhinal cortex in the effective connectivity of the hippocampal formation. <i>Chaos</i> , 2017 , 27, 047401	3.3	5
51	Structural and functional, empirical and modeled connectivity in the cerebral cortex of the rat. <i>NeuroImage</i> , 2017 , 159, 170-184	7.9	24
50	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
49	How Do Interconnected Neuronal Networks Adjust to External Stimulation: Parametric Studies of DBS-FMRI. <i>Biosystems and Biorobotics</i> , 2017 , 85-89	0.2	
48	Frequency-Dependent Gating of Hippocampal-Neocortical Interactions. <i>Cerebral Cortex</i> , 2016 , 26, 2105-2114	3.1	23
47	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
46	Tuning noninvasive brain stimulation with MRI to cope with intersubject variability. <i>Current Opinion in Neurology</i> , 2016 , 29, 453-8	7.1	3
45	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
44	Widespread vestibular activation of the rodent cortex. <i>Journal of Neuroscience</i> , 2015 , 35, 5926-34	6.6	55
43	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
42	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
41	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
40	Brain size regulations by <i>cbp</i> haploinsufficiency evaluated by in-vivo MRI based volumetry. <i>Scientific Reports</i> , 2015 , 5, 16256	4.9	2
39	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
38	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
37	Avoiding catastrophic failure in correlated networks of networks. <i>Nature Physics</i> , 2014 , 10, 762-767	16.2	184

36	Phenotyping the central nervous system of the embryonic mouse by magnetic resonance microscopy. <i>NeuroImage</i> , 2014 , 97, 95-106	7.9	3
35	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
34	ErbB4 deletion from fast-spiking interneurons causes schizophrenia-like phenotypes. <i>Neuron</i> , 2013 , 79, 1152-68	13.9	193
33	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
32	Neurophysiological, metabolic and cellular compartments that drive neurovascular coupling and neuroimaging signals. <i>Frontiers in Neuroenergetics</i> , 2013 , 5, 3		14
31	Amelioration of ischemic brain damage by peritoneal dialysis. <i>Journal of Clinical Investigation</i> , 2013 , 123, 4359-63	15.9	37
30	Biocytin-Based Contrast Agents for Molecular Imaging: An Approach to Developing New In Vivo Neuroanatomical Tracers for MRI 2012 ,		1
29	Biocytin-derived MRI contrast agent for longitudinal brain connectivity studies. <i>ACS Chemical Neuroscience</i> , 2011 , 2, 578-87	5.7	8
28	CBP is required for environmental enrichment-induced neurogenesis and cognitive enhancement. <i>EMBO Journal</i> , 2011 , 30, 4287-98	13	79
27	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
26	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
25	Improved neuronal tract tracing with stable biocytin-derived neuroimaging agents. <i>ACS Chemical Neuroscience</i> , 2010 , 1, 129-38	5.7	6
24	Behavioral, electrophysiological and histopathological consequences of systemic manganese administration in MEMRI. <i>Magnetic Resonance Imaging</i> , 2010 , 28, 1165-74	3.3	45
23	Functional MRI evidence for LTP-induced neural network reorganization. <i>Current Biology</i> , 2009 , 19, 398-403		85
22	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
21	Magnetic resonance imaging of cortical connectivity in vivo. <i>NeuroImage</i> , 2008 , 40, 458-472	7.9	65
20	Electric stimulation fMRI of the perforant pathway to the rat hippocampus. <i>Magnetic Resonance Imaging</i> , 2008 , 26, 978-86	3.3	48
19	Smart magnetic resonance imaging agents that sense extracellular calcium fluctuations. <i>ChemBioChem</i> , 2008 , 9, 1729-34	3.8	76

18	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
17	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
16	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
15	Nitric Oxide and Dopamine Neurons. Implications for Parkinsons Disease. <i>Current Medicinal Chemistry - Central Nervous System Agents</i> , 2005 , 5, 193-205		1
14	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
13	Parkin gene inactivation alters behaviour and dopamine neurotransmission in the mouse. <i>Human Molecular Genetics</i> , 2003 , 12, 2277-91	5.6	403
12	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
11	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
10	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
9	The role of astroglia on the survival of dopamine neurons. <i>Molecular Neurobiology</i> , 2002 , 25, 245-63	6.2	55
8	Thiolic antioxidants protect from nitric oxide-induced toxicity in fetal midbrain cultures. <i>Neuropharmacology</i> , 2002 , 43, 877-88	5.5	35
7	Neurotrophic and neurotoxic effects of nitric oxide on fetal midbrain cultures. <i>Journal of Neurochemistry</i> , 2001 , 76, 56-68	6	44
6	Glutathione depletion switches nitric oxide neurotrophic effects to cell death in midbrain cultures: implications for Parkinsons disease. <i>Journal of Neurochemistry</i> , 2001 , 79, 1183-95	6	54
5	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
4	Nitric oxide induces differentiation in the NB69 human catecholamine-rich cell line. <i>Neuropharmacology</i> , 2000 , 39, 2090-100	5.5	16
3	Effect of prenatal uterine position on male and female rats sexual behavior. <i>Physiology and Behavior</i> , 1999 , 67, 401-8	3.5	29
2	Mapping microglia and astrocytes activation in vivo using diffusion MRI		5
1	Different theta frameworks coexist in the hippocampus and are coordinated during memory-guided exploration and novelty detection		2

