

Yuri Zilberter

List of Publications by Citations

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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.

53
papers

2,948
citations

29
h-index

54
g-index

55
ext. papers

3,334
ext. citations

6.7
avg, IF

4.89
L-index

#	Paper	IF	Citations
53	Amyloid beta-induced neuronal hyperexcitability triggers progressive epilepsy. <i>Journal of Neuroscience</i> , 2009 , 29, 3453-62	6.6	422
52	Pyramidal cell communication within local networks in layer 2/3 of rat neocortex. <i>Journal of Physiology</i> , 2003 , 551, 139-53	3.9	411
51	Dendritic GABA release depresses excitatory transmission between layer 2/3 pyramidal and bitufted neurons in rat neocortex. <i>Neuron</i> , 1999 , 24, 979-88	13.9	122
50	Coincident spiking activity induces long-term changes in inhibition of neocortical pyramidal cells. <i>Journal of Neuroscience</i> , 2001 , 21, 8270-7	6.6	118
49	Excitatory GABA in rodent developing neocortex in vitro. <i>Journal of Neurophysiology</i> , 2008 , 100, 609-19	3.2	107
48	Adenosine receptor antagonists including caffeine alter fetal brain development in mice. <i>Science Translational Medicine</i> , 2013 , 5, 197ra104	17.5	102
47	The vicious circle of hypometabolism in neurodegenerative diseases: Ways and mechanisms of metabolic correction. <i>Journal of Neuroscience Research</i> , 2017 , 95, 2217-2235	4.4	99
46	Postnatal changes in somatic gamma-aminobutyric acid signalling in the rat hippocampus. <i>European Journal of Neuroscience</i> , 2008 , 27, 2515-28	3.5	99
45	Facilitation of currents through rat Ca ²⁺ -permeable AMPA receptor channels by activity-dependent relief from polyamine block. <i>Journal of Physiology</i> , 1998 , 511 (Pt 2), 361-77	3.9	96
44	Endocannabinoid-independent retrograde signaling at inhibitory synapses in layer 2/3 of neocortex: involvement of vesicular glutamate transporter 3. <i>Journal of Neuroscience</i> , 2004 , 24, 4978-88	6.6	88
43	Glycolysis and oxidative phosphorylation in neurons and astrocytes during network activity in hippocampal slices. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2014 , 34, 397-407	7.3	83
42	Brain-derived neurotrophic factor controls functional differentiation and microcircuit formation of selectively isolated fast-spiking GABAergic interneurons. <i>European Journal of Neuroscience</i> , 2004 , 20, 1290-306	3.5	77
41	GABA action in immature neocortical neurons directly depends on the availability of ketone bodies. <i>Journal of Neurochemistry</i> , 2009 , 110, 1330-8	6	73
40	Energy substrate availability as a determinant of neuronal resting potential, GABA signaling and spontaneous network activity in the neonatal cortex in vitro. <i>Journal of Neurochemistry</i> , 2010 , 112, 900-12	6	70
39	Non-fibrillar beta-amyloid abates spike-timing-dependent synaptic potentiation at excitatory synapses in layer 2/3 of the neocortex by targeting postsynaptic AMPA receptors. <i>European Journal of Neuroscience</i> , 2006 , 23, 2035-47	3.5	69
38	Neuronal activity in vitro and the in vivo reality: the role of energy homeostasis. <i>Trends in Pharmacological Sciences</i> , 2010 , 31, 394-401	13.2	65
37	Complementary distribution of type 1 cannabinoid receptors and vesicular glutamate transporter 3 in basal forebrain suggests input-specific retrograde signalling by cholinergic neurons. <i>European Journal of Neuroscience</i> , 2003 , 18, 1979-92	3.5	61

36	Wavelet formation in excitable cardiac tissue: the role of wavefront-obstacle interactions in initiating high-frequency fibrillatory-like arrhythmias. <i>Biophysical Journal</i> , 1996 , 70, 581-94	2.9	60
35	Dietary energy substrates reverse early neuronal hyperactivity in a mouse model of Alzheimer's disease. <i>Journal of Neurochemistry</i> , 2013 , 125, 157-71	6	56
34	Proarrhythmic response to potassium channel blockade. Numerical studies of polymorphic tachyarrhythmias. <i>Circulation</i> , 1995 , 92, 595-605	16.7	50
33	Critical state of energy metabolism in brain slices: the principal role of oxygen delivery and energy substrates in shaping neuronal activity. <i>Frontiers in Neuroenergetics</i> , 2011 , 3, 9		47
32	Postsynaptic calcium influx at single synaptic contacts between pyramidal neurons and bitufted interneurons in layer 2/3 of rat neocortex is enhanced by backpropagating action potentials. <i>Journal of Neuroscience</i> , 2004 , 24, 1319-29	6.6	41
31	Lactate Effectively Covers Energy Demands during Neuronal Network Activity in Neonatal Hippocampal Slices. <i>Frontiers in Neuroenergetics</i> , 2011 , 3, 2		39
30	Region-specific generation of functional neurons from naive embryonic stem cells in adult brain. <i>Journal of Neurochemistry</i> , 2004 , 88, 1229-39	6	37
29	Vulnerability in one-dimensional excitable media. <i>Physica D: Nonlinear Phenomena</i> , 1994 , 70, 321-341	3.3	36
28	A unique array of neuroprotective effects of pyruvate in neuropathology. <i>Frontiers in Neuroscience</i> , 2015 , 9, 17	5.1	33
27	Layer-specific generation and propagation of seizures in slices of developing neocortex: role of excitatory GABAergic synapses. <i>Journal of Neurophysiology</i> , 2008 , 100, 620-8	3.2	33
26	Chronic inhibition of brain glycolysis initiates epileptogenesis. <i>Journal of Neuroscience Research</i> , 2017 , 95, 2195-2206	4.4	30
25	Input specificity and dependence of spike timing-dependent plasticity on preceding postsynaptic activity at unitary connections between neocortical layer 2/3 pyramidal cells. <i>Cerebral Cortex</i> , 2009 , 19, 2308-20	5.1	30
24	Reactive oxygen species initiate a metabolic collapse in hippocampal slices: potential trigger of cortical spreading depression. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2014 , 34, 1540-9	7.3	29
23	Dendritic release of retrograde messengers controls synaptic transmission in local neocortical networks. <i>Neuroscientist</i> , 2005 , 11, 334-44	7.6	29
22	Metabolic correction by pyruvate halts acquired epilepsy in multiple rodent models. <i>Neurobiology of Disease</i> , 2017 , 106, 244-254	7.5	24
21	Inhibitory actions of the gamma-aminobutyric acid in pediatric Sturge-Weber syndrome. <i>Annals of Neurology</i> , 2009 , 66, 209-18	9.4	24
20	Inhibition of spontaneous network activity in neonatal hippocampal slices by energy substrates is not correlated with intracellular acidification. <i>Journal of Neurochemistry</i> , 2011 , 116, 316-21	6	23
19	Kinetics of interaction of disopyramide with the cardiac sodium channel: fast dissociation from open channels at normal rest potentials. <i>Journal of Membrane Biology</i> , 1993 , 136, 199-214	2.3	18

18	Neurotrophin-4 mediated TrkB activation reinforces morphine-induced analgesia. <i>Nature Neuroscience</i> , 2003 , 6, 221-2	25.5	17
17	Subthreshold inactivation of voltage-gated K ⁺ channels modulates action potentials in neocortical bitufted interneurons from rats. <i>Journal of Physiology</i> , 2005 , 562, 421-37	3.9	17
16	Chronic Pyruvate Supplementation Increases Exploratory Activity and Brain Energy Reserves in Young and Middle-Aged Mice. <i>Frontiers in Aging Neuroscience</i> , 2016 , 8, 41	5.3	17
15	Activation of nicotinamide adenine dinucleotide phosphate oxidase is the primary trigger of epileptic seizures in rodent models. <i>Annals of Neurology</i> , 2019 , 85, 907-920	9.4	16
14	Seizure-induced reduction in glucose utilization promotes brain hypometabolism during epileptogenesis. <i>Neurobiology of Disease</i> , 2018 , 116, 28-38	7.5	15
13	Potentiation of glutamate-activated currents in isolated hippocampal neurons. <i>Neuron</i> , 1990 , 5, 597-602	13.9	15
12	Ketogenic Ratio Determines Metabolic Effects of Macronutrients and Prevents Interpretive Bias. <i>Frontiers in Nutrition</i> , 2018 , 5, 75	6.2	12
11	(R)-roscovitine, a cyclin-dependent kinase inhibitor, enhances tonic GABA inhibition in rat hippocampus. <i>Neuroscience</i> , 2008 , 156, 277-88	3.9	6
10	Optogenetics to help exploring the cerebral blood flow regulation. <i>Frontiers in Pharmacology</i> , 2014 , 5, 107	5.6	5
9	Initiates brain hypometabolism, network dysfunction and behavioral abnormalities via NOX2-induced oxidative stress in mice. <i>Communications Biology</i> , 2021 , 4, 1054	6.7	5
8	Commentary: GABA Depolarizes Immature Neurons and Inhibits Network Activity in the Neonatal Neocortex In vivo. <i>Frontiers in Pharmacology</i> , 2015 , 6, 294	5.6	4
7	Glucose-Sparing Action of Ketones Boosts Functions Exclusive to Glucose in the Brain. <i>ENeuro</i> , 2020 , 7,	3.9	4
6	Initiates brain hypometabolism and network dysfunction via NOX2 activation: a potential onset mechanism of Alzheimer's disease		4
5	O2-14-04: Triple-target treatment for Alzheimer's: Correcting hypometabolism, oxidative stress, and neuroinflammation 2015 , 11, P209-P209		2
4	Effects of short-term synaptic plasticity in a local microcircuit on cell firing. <i>Neurocomputing</i> , 2003 , 52-54, 7-12	5.4	2
3	Unifying mechanism behind the onset of acquired epilepsy. <i>Trends in Pharmacological Sciences</i> , 2021 ,	13.2	2
2	Understanding how the brain ensures its energy supply. <i>Frontiers in Neuroenergetics</i> , 2012 , 4, 9		1
1	Classical Neurotransmitters as Retrograde Messengers in Layer 2/3 of the Neocortex: Emphasis on Glutamate and Gaba 2005 , 117-131		

