

Yuri Zilberter

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

3,620
citations

182225

30
h-index

206121

51
g-index

55
all docs

55
docs citations

55
times ranked

5426
citing authors

#	ARTICLE	IF	CITATIONS
1	Unifying mechanism behind the onset of acquired epilepsy. Trends in Pharmacological Sciences, 2022, 43, 87-96.	4.0	17
2	A β 2 initiates brain hypometabolism, network dysfunction and behavioral abnormalities via NOX2-induced oxidative stress in mice. Communications Biology, 2021, 4, 1054.	2.0	23
3	Glucose-Sparing Action of Ketones Boosts Functions Exclusive to Glucose in the Brain. ENeuro, 2020, 7, ENEURO.0303-20.2020.	0.9	10
4	Activation of nicotinamide adenine dinucleotide phosphate oxidase is the primary trigger of epileptic seizures in rodent models. Annals of Neurology, 2019, 85, 907-920.	2.8	25
5	Seizure-induced reduction in glucose utilization promotes brain hypometabolism during epileptogenesis. Neurobiology of Disease, 2018, 116, 28-38.	2.1	22
6	Ketogenic Ratio Determines Metabolic Effects of Macronutrients and Prevents Interpretive Bias. Frontiers in Nutrition, 2018, 5, 75.	1.6	24
7	Chronic inhibition of brain glycolysis initiates epileptogenesis. Journal of Neuroscience Research, 2017, 95, 2195-2206.	1.3	41
8	The vicious circle of hypometabolism in neurodegenerative diseases: Ways and mechanisms of metabolic correction. Journal of Neuroscience Research, 2017, 95, 2217-2235.	1.3	149
9	Metabolic correction by pyruvate halts acquired epilepsy in multiple rodent models. Neurobiology of Disease, 2017, 106, 244-254.	2.1	33
10	Chronic Pyruvate Supplementation Increases Exploratory Activity and Brain Energy Reserves in Young and Middle-Aged Mice. Frontiers in Aging Neuroscience, 2016, 8, 41.	1.7	29
11	A unique array of neuroprotective effects of pyruvate in neuropathology. Frontiers in Neuroscience, 2015, 9, 17.	1.4	44
12	Commentary: GABA Depolarizes Immature Neurons and Inhibits Network Activity in the Neonatal Neocortex In vivo. Frontiers in Pharmacology, 2015, 6, 294.	1.6	5
13	O2-14-04: Triple-target treatment for Alzheimer's: Correcting hypometabolism, oxidative stress, and neuroinflammation. , 2015, 11, P209-P209.		2
14	Optogenetics to help exploring the cerebral blood flow regulation. Frontiers in Pharmacology, 2014, 5, 107.	1.6	5
15	Glycolysis and Oxidative Phosphorylation in Neurons and Astrocytes during Network Activity in Hippocampal Slices. Journal of Cerebral Blood Flow and Metabolism, 2014, 34, 397-407.	2.4	95
16	Reactive Oxygen Species Initiate a Metabolic Collapse in Hippocampal Slices: Potential Trigger of Cortical Spreading Depression. Journal of Cerebral Blood Flow and Metabolism, 2014, 34, 1540-1549.	2.4	35
17	Dietary energy substrates reverse early neuronal hyperactivity in a mouse model of Alzheimer's disease. Journal of Neurochemistry, 2013, 125, 157-171.	2.1	79
18	Adenosine Receptor Antagonists Including Caffeine Alter Fetal Brain Development in Mice. Science Translational Medicine, 2013, 5, 197ra104.	5.8	148

#	ARTICLE	IF	CITATIONS
19	Understanding How the Brain Ensures Its Energy Supply. <i>Frontiers in Neuroenergetics</i> , 2012, 4, 9.	5.3	1
20	Lactate Effectively Covers Energy Demands during Neuronal Network Activity in Neonatal Hippocampal Slices. <i>Frontiers in Neuroenergetics</i> , 2011, 3, 2.	5.3	49
21	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.	5.3	58
22	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, 316-321.	2.1	24
23	Energy substrate availability as a determinant of neuronal resting potential, GABA signaling and spontaneous network activity in the neonatal cortex <i>in vitro</i> . <i>Journal of Neurochemistry</i> , 2010, 112, 900-912.	2.1	78
24	Neuronal activity in vitro and the in vivo reality: the role of energy homeostasis. <i>Trends in Pharmacological Sciences</i> , 2010, 31, 394-401.	4.0	87
25	Amyloid β -Induced Neuronal Hyperexcitability Triggers Progressive Epilepsy. <i>Journal of Neuroscience</i> , 2009, 29, 3453-3462.	1.7	545
26	Inhibitory actions of the gamma-aminobutyric acid in pediatric Sturge-Weber syndrome. <i>Annals of Neurology</i> , 2009, 66, 209-218.	2.8	26
27	GABA action in immature neocortical neurons directly depends on the availability of ketone bodies. <i>Journal of Neurochemistry</i> , 2009, 110, 1330-1338.	2.1	78
28	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, 2308-2320.	1.6	34
29	Postnatal changes in somatic γ -aminobutyric acid signalling in the rat hippocampus. <i>European Journal of Neuroscience</i> , 2008, 27, 2515-2528.	1.2	117
30	(R)-roscovitine, a cyclin-dependent kinase inhibitor, enhances tonic GABA inhibition in rat hippocampus. <i>Neuroscience</i> , 2008, 156, 277-288.	1.1	7
31	Excitatory GABA in Rodent Developing Neocortex In Vitro. <i>Journal of Neurophysiology</i> , 2008, 100, 609-619.	0.9	125
32	Layer-Specific Generation and Propagation of Seizures in Slices of Developing Neocortex: Role of Excitatory GABAergic Synapses. <i>Journal of Neurophysiology</i> , 2008, 100, 620-628.	0.9	36
33	Non-fibrillar β -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, 2035-2047.	1.2	76
34	Subthreshold inactivation of voltage-gated K ⁺ channels modulates action potentials in neocortical bitufted interneurons from rats. <i>Journal of Physiology</i> , 2005, 562, 421-437.	1.3	19
35	Dendritic Release of Retrograde Messengers Controls Synaptic Transmission in Local Neocortical Networks. <i>Neuroscientist</i> , 2005, 11, 334-344.	2.6	32
36	Classical Neurotransmitters as Retrograde Messengers in Layer 2/3 of the Neocortex: Emphasis on Glutamate and Gaba. , 2005, , 117-131.		0

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37	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, 4978-4988.	1.7	90
38	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, 1319-1329.	1.7	44
39	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, 1290-1306.	1.2	88
40	Region-specific generation of functional neurons from naive embryonic stem cells in adult brain. <i>Journal of Neurochemistry</i> , 2004, 88, 1229-1239.	2.1	41
41	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, 1979-1992.	1.2	69
42	Neurotrophin-4 mediated TrkB activation reinforces morphine-induced analgesia. <i>Nature Neuroscience</i> , 2003, 6, 221-222.	7.1	18
43	Effects of short-term synaptic plasticity in a local microcircuit on cell firing. <i>Neurocomputing</i> , 2003, 52-54, 7-12.	3.5	2
44	Pyramidal cell communication within local networks in layer 2/3 of rat neocortex. <i>Journal of Physiology</i> , 2003, 551, 139-153.	1.3	508
45	Coincident Spiking Activity Induces Long-Term Changes in Inhibition of Neocortical Pyramidal Cells. <i>Journal of Neuroscience</i> , 2001, 21, 8270-8277.	1.7	136
46	Dendritic GABA Release Depresses Excitatory Transmission between Layer 2/3 Pyramidal and Bitufted Neurons in Rat Neocortex. <i>Neuron</i> , 1999, 24, 979-988.	3.8	126
47	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, 361-377.	1.3	101
48	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, 581-594.	0.2	74
49	Proarrhythmic Response to Potassium Channel Blockade. <i>Circulation</i> , 1995, 92, 595-605.	1.6	62
50	Vulnerability in one-dimensional excitable media. <i>Physica D: Nonlinear Phenomena</i> , 1994, 70, 321-341.	1.3	42
51	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.	1.0	18
52	Potentiation of glutamate-activated currents in isolated hippocampal neurons. <i>Neuron</i> , 1990, 5, 597-602.	3.8	15