

Attila Szűcs

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

874
citations

567281

15
h-index

501196

28
g-index

31
all docs

31
docs citations

31
times ranked

883
citing authors

#	ARTICLE	IF	CITATIONS
1	Age-dependent instability of mature neuronal fate in induced neurons from Alzheimer's patients. <i>Cell Stem Cell</i> , 2021, 28, 1533-1548.e6.	11.1	119
2	Applications of the spike density function in analysis of neuronal firing patterns. <i>Journal of Neuroscience Methods</i> , 1998, 81, 159-167.	2.5	90
3	Interacting biological and electronic neurons generate realistic oscillatory rhythms. <i>NeuroReport</i> , 2000, 11, 563-569.	1.2	89
4	Delayed Satiety-Like Actions and Altered Feeding Microstructure by a Selective Type 2 Corticotropin-Releasing Factor Agonist in Rats: Intra-Hypothalamic Urocortin 3 Administration Reduces Food Intake by Prolonging the Post-Meal Interval. <i>Neuropsychopharmacology</i> , 2007, 32, 1052-1068.	5.4	83
5	Synaptic Modulation of the Interspike Interval Signatures of Bursting Pyloric Neurons. <i>Journal of Neurophysiology</i> , 2003, 89, 1363-1377.	1.8	69
6	StdpC: A modern dynamic clamp. <i>Journal of Neuroscience Methods</i> , 2006, 158, 287-299.	2.5	56
7	Nonlinear Behavior of Sinusoidally Forced Pyloric Pacemaker Neurons. <i>Journal of Neurophysiology</i> , 2001, 85, 1623-1638.	1.8	40
8	Models Wagging the Dog: Are Circuits Constructed with Disparate Parameters?. <i>Neural Computation</i> , 2007, 19, 1985-2003.	2.2	32
9	Dopamine modulation of spike dynamics in bursting neurons. <i>European Journal of Neuroscience</i> , 2005, 21, 763-772.	2.6	31
10	Robust Microcircuit Synchronization by Inhibitory Connections. <i>Neuron</i> , 2009, 61, 439-453.	8.1	29
11	Homeostatic plasticity and burst activity are mediated by hyperpolarization-activated cation currents and T-type calcium channels in neuronal cultures. <i>Scientific Reports</i> , 2021, 11, 3236.	3.3	22
12	Excitability of jcbNST Neurons Is Reduced in Alcohol-Dependent Animals during Protracted Alcohol Withdrawal. <i>PLoS ONE</i> , 2012, 7, e42313.	2.5	21
13	Ras and Rab interactor 1 controls neuronal plasticity by coordinating dendritic filopodial motility and AMPA receptor turnover. <i>Molecular Biology of the Cell</i> , 2017, 28, 285-295.	2.1	21
14	Neural mechanisms underlying the generation of the lobster gastric mill motor pattern. <i>Frontiers in Neural Circuits</i> , 2009, 3, 12.	2.8	20
15	Consistent dynamics suggests tight regulation of biophysical parameters in a small network of bursting neurons. <i>Journal of Neurobiology</i> , 2006, 66, 1584-1601.	3.6	19
16	Dendritic spine morphology and memory formation depend on postsynaptic Caskin proteins. <i>Scientific Reports</i> , 2019, 9, 16843.	3.3	19
17	Consistency and Diversity of Spike Dynamics in the Neurons of Bed Nucleus of Stria Terminalis of the Rat: A Dynamic Clamp Study. <i>PLoS ONE</i> , 2010, 5, e11920.	2.5	16
18	Protein kinase D promotes plasticity-induced F-actin stabilization in dendritic spines and regulates memory formation. <i>Journal of Cell Biology</i> , 2015, 210, 771-783.	5.2	16

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19	Frequency-dependent regulation of intrinsic excitability by voltage-activated membrane conductances, computational modeling and dynamic clamp. <i>European Journal of Neuroscience</i> , 2017, 46, 2429-2444.	2.6	15
20	Differential effects of static and dynamic inputs on neuronal excitability. <i>Journal of Neurophysiology</i> , 2015, 113, 232-243.	1.8	9
21	Opiate dependence induces cell type-specific plasticity of intrinsic membrane properties in the rat juxtacapsular bed nucleus of stria terminalis (jcBNST). <i>Psychopharmacology</i> , 2017, 234, 3485-3498.	3.1	9
22	A Network of Electronic Neural Oscillators Reproduces the Dynamics of the Periodically Forced Pyloric Pacemaker Group. <i>IEEE Transactions on Biomedical Engineering</i> , 2005, 52, 792-798.	4.2	8
23	Short-term neuronal effects of fumonisin B1 on neuronal activity in rodents. <i>NeuroToxicology</i> , 2020, 80, 41-51.	3.0	8
24	Alternative classifications of neurons based on physiological properties and synaptic responses, a computational study. <i>Scientific Reports</i> , 2019, 9, 13096.	3.3	7
25	Reduced intrinsic excitability of CA1 pyramidal neurons in human immunodeficiency virus (HIV) transgenic rats. <i>Brain Research</i> , 2019, 1724, 146431.	2.2	6
26	Alterations of the Hippocampal Networks in Valproic Acid-Induced Rat Autism Model. <i>Frontiers in Neural Circuits</i> , 2022, 16, 772792.	2.8	6
27	Conventional measures of intrinsic excitability are poor estimators of neuronal activity under realistic synaptic inputs. <i>PLoS Computational Biology</i> , 2021, 17, e1009378.	3.2	5
28	Protein kinase D promotes activity-dependent α -AMPA receptor endocytosis in hippocampal neurons. <i>Traffic</i> , 2021, 22, 454-470.	2.7	4
29	Determining Burst Firing Time Distributions from Multiple Spike Trains. <i>Neural Computation</i> , 2009, 21, 973-990.	2.2	3
30	Kainate receptors have different modulatory effect in seizure-like events and slow rhythmic activity in entorhinal cortex ex vivo. <i>Brain Research Bulletin</i> , 2019, 153, 279-288.	3.0	1