Jorge Golowasch

List of Publications by Year in descending order

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35 papers	2,054 citations	567144 15 h-index	526166 27 g-index
40 all docs	40 docs citations	40 times ranked	1271 citing authors

#	Article	IF	Citations
1	Capacitance, Membrane. , 2022, , 673-677.		0
2	Stability and Homeostasis in Small Network Central Pattern Generators. , 2022, , 3293-3299.		0
3	Frequency-Dependent Action of Neuromodulation. ENeuro, 2021, 8, ENEURO.0338-21.2021.	0.9	12
4	Positive Dynamical Networks in Neuronal Regulation: How Tunable Variability Coexists With Robustness. , 2020, 4, 946-951.		13
5	Neuronal Homeostasis: Voltage Brings It All Together. Current Biology, 2019, 29, R641-R644.	1.8	14
6	Neuromodulation of central pattern generators and its role in the functional recovery of central pattern generator activity. Journal of Neurophysiology, 2019, 122, 300-315.	0.9	21
7	Ionic current correlations are ubiquitous across phyla. Scientific Reports, 2019, 9, 1687.	1.6	20
8	A balance of outward and linear inward ionic currents is required for generation of slow-wave oscillations. Journal of Neurophysiology, 2017, 118, 1092-1104.	0.9	19
9	Activation mechanism of a neuromodulator-gated pacemaker ionic current. Journal of Neurophysiology, 2017, 118, 595-609.	0.9	18
10	Dynamic compensation mechanism gives rise to period and duty-cycle level sets in oscillatory neuronal models. Journal of Neurophysiology, 2016, 116, 2431-2452.	0.9	15
11	Voltage Dependence of a Neuromodulator-Activated Ionic Current. ENeuro, 2016, 3, ENEURO.0038-16.2016.	0.9	13
12	Stability and Homeostasis in Small Network Central Pattern Generators. , 2015, , 2858-2864.		3
13	The role of linear and voltage-dependent ionic currents in the generation of slow wave oscillations. Journal of Computational Neuroscience, 2014, 37, 229-242.	0.6	20
14	Ionic Current Variability and Functional Stability in the Nervous System. BioScience, 2014, 64, 570-580.	2.2	38
15	Capacitance, Membrane. , 2014, , 1-5.		9
16	Stability and Homeostasis in Small Network Central Pattern Generators. , 2014, , 1-8.		0
17	Neuromodulation independently determines correlated channel expression and conductance levels in motor neurons of the stomatogastric ganglion. Journal of Neurophysiology, 2012, 107, 718-727.	0.9	89
18	Ionic Current Correlations Underlie the Global Tuning of Large Numbers of Neuronal Activity Attributes. Journal of Neuroscience, 2012, 32, 13380-13388.	1.7	43

#	Article	IF	Citations
19	Recovery of rhythmic activity in a central pattern generator: analysis of the role of neuromodulator and activity-dependent mechanisms. Journal of Computational Neuroscience, 2011, 31, 685-699.	0.6	11
20	Pacemaker neuron and network oscillations depend on a neuromodulator-regulated linear current. Frontiers in Behavioral Neuroscience, 2010, 4, 21.	1.0	60
21	Activity and Neuromodulatory Input Contribute to the Recovery of Rhythmic Output After Decentralization in a Central Pattern Generator. Journal of Neurophysiology, 2009, 101, 372-386.	0.9	31
22	Membrane Capacitance Measurements Revisited: Dependence of Capacitance Value on Measurement Method in Nonisopotential Neurons. Journal of Neurophysiology, 2009, 102, 2161-2175.	0.9	115
23	Neuromodulators, Not Activity, Control Coordinated Expression of Ionic Currents. Journal of Neuroscience, 2007, 27, 8709-8718.	1.7	141
24	Modeling recovery of rhythmic activity: Hypothesis for the role of a calcium pump. Neurocomputing, 2007, 70, 1657-1662.	3.5	11
25	Ionic Mechanism Underlying Recovery of Rhythmic Activity in Adult Isolated Neurons. Journal of Neurophysiology, 2006, 96, 1860-1876.	0.9	38
26	Signal Transmission Between Gap-Junctionally Coupled Passive Cables Is Most Effective at an Optimal Diameter. Journal of Neurophysiology, 2006, 95, 3831-3843.	0.9	18
27	Effect of Electrical Coupling on Ionic Current and Synaptic Potential Measurements. Journal of Neurophysiology, 2005, 94, 519-530.	0.9	15
28	Episodic Bouts of Activity Accompany Recovery of Rhythmic Output By a Neuromodulator- and Activity-Deprived Adult Neural Network. Journal of Neurophysiology, 2003, 90, 2720-2730.	0.9	56
29	Failure of Averaging in the Construction of a Conductance-Based Neuron Model. Journal of Neurophysiology, 2002, 87, 1129-1131.	0.9	275
30	Global Structure, Robustness, and Modulation of Neuronal Models. Journal of Neuroscience, 2001, 21, 5229-5238.	1.7	341
31	Activity-Dependent Regulation of Potassium Currents in an Identified Neuron of the Stomatogastric Ganglion of the CrabCancer borealis. Journal of Neuroscience, 1999, 19, RC33-RC33.	1.7	170
32	Network Stability from Activity-Dependent Regulation of Neuronal Conductances. Neural Computation, 1999, 11, 1079-1096.	1.3	165
33	A Model Neuron with Activity-Dependent Conductances Regulated by Multiple Calcium Sensors. Journal of Neuroscience, 1998, 18, 2309-2320.	1.7	217
34	Membrane Currents in Rhythmic Neurons. , 1990, , 417-423.		2
35	Not so bad. Nature, 1987, 329, 282-282.	13.7	0