

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	Global Structure, Robustness, and Modulation of Neuronal Models. <i>Journal of Neuroscience</i> , 2001, 21, 5229-5238.	1.7	341
2	Failure of Averaging in the Construction of a Conductance-Based Neuron Model. <i>Journal of Neurophysiology</i> , 2002, 87, 1129-1131.	0.9	275
3	A Model Neuron with Activity-Dependent Conductances Regulated by Multiple Calcium Sensors. <i>Journal of Neuroscience</i> , 1998, 18, 2309-2320.	1.7	217
4	Activity-Dependent Regulation of Potassium Currents in an Identified Neuron of the Stomatogastric Ganglion of the Crab <i>Cancer borealis</i> . <i>Journal of Neuroscience</i> , 1999, 19, RC33-RC33.	1.7	170
5	Network Stability from Activity-Dependent Regulation of Neuronal Conductances. <i>Neural Computation</i> , 1999, 11, 1079-1096.	1.3	165
6	Neuromodulators, Not Activity, Control Coordinated Expression of Ionic Currents. <i>Journal of Neuroscience</i> , 2007, 27, 8709-8718.	1.7	141
7	Membrane Capacitance Measurements Revisited: Dependence of Capacitance Value on Measurement Method in Nonisopotential Neurons. <i>Journal of Neurophysiology</i> , 2009, 102, 2161-2175.	0.9	115
8	Neuromodulation independently determines correlated channel expression and conductance levels in motor neurons of the stomatogastric ganglion. <i>Journal of Neurophysiology</i> , 2012, 107, 718-727.	0.9	89
9	Pacemaker neuron and network oscillations depend on a neuromodulator-regulated linear current. <i>Frontiers in Behavioral Neuroscience</i> , 2010, 4, 21.	1.0	60
10	Episodic Bouts of Activity Accompany Recovery of Rhythmic Output By a Neuromodulator- and Activity-Deprived Adult Neural Network. <i>Journal of Neurophysiology</i> , 2003, 90, 2720-2730.	0.9	56
11	Ionic Current Correlations Underlie the Global Tuning of Large Numbers of Neuronal Activity Attributes. <i>Journal of Neuroscience</i> , 2012, 32, 13380-13388.	1.7	43
12	Ionic Mechanism Underlying Recovery of Rhythmic Activity in Adult Isolated Neurons. <i>Journal of Neurophysiology</i> , 2006, 96, 1860-1876.	0.9	38
13	Ionic Current Variability and Functional Stability in the Nervous System. <i>BioScience</i> , 2014, 64, 570-580.	2.2	38
14	Activity and Neuromodulatory Input Contribute to the Recovery of Rhythmic Output After Decentralization in a Central Pattern Generator. <i>Journal of Neurophysiology</i> , 2009, 101, 372-386.	0.9	31
15	Neuromodulation of central pattern generators and its role in the functional recovery of central pattern generator activity. <i>Journal of Neurophysiology</i> , 2019, 122, 300-315.	0.9	21
16	The role of linear and voltage-dependent ionic currents in the generation of slow wave oscillations. <i>Journal of Computational Neuroscience</i> , 2014, 37, 229-242.	0.6	20
17	Ionic current correlations are ubiquitous across phyla. <i>Scientific Reports</i> , 2019, 9, 1687.	1.6	20
18	A balance of outward and linear inward ionic currents is required for generation of slow-wave oscillations. <i>Journal of Neurophysiology</i> , 2017, 118, 1092-1104.	0.9	19

#	ARTICLE	IF	CITATIONS
19	Signal Transmission Between Gap-Junctionally Coupled Passive Cables Is Most Effective at an Optimal Diameter. <i>Journal of Neurophysiology</i> , 2006, 95, 3831-3843.	0.9	18
20	Activation mechanism of a neuromodulator-gated pacemaker ionic current. <i>Journal of Neurophysiology</i> , 2017, 118, 595-609.	0.9	18
21	Effect of Electrical Coupling on Ionic Current and Synaptic Potential Measurements. <i>Journal of Neurophysiology</i> , 2005, 94, 519-530.	0.9	15
22	Dynamic compensation mechanism gives rise to period and duty-cycle level sets in oscillatory neuronal models. <i>Journal of Neurophysiology</i> , 2016, 116, 2431-2452.	0.9	15
23	Neuronal Homeostasis: Voltage Brings It All Together. <i>Current Biology</i> , 2019, 29, R641-R644.	1.8	14
24	Positive Dynamical Networks in Neuronal Regulation: How Tunable Variability Coexists With Robustness. , 2020, 4, 946-951.		13
25	Voltage Dependence of a Neuromodulator-Activated Ionic Current. <i>ENeuro</i> , 2016, 3, ENEURO.0038-16.2016.	0.9	13
26	Frequency-Dependent Action of Neuromodulation. <i>ENeuro</i> , 2021, 8, ENEURO.0338-21.2021.	0.9	12
27	Modeling recovery of rhythmic activity: Hypothesis for the role of a calcium pump. <i>Neurocomputing</i> , 2007, 70, 1657-1662.	3.5	11
28	Recovery of rhythmic activity in a central pattern generator: analysis of the role of neuromodulator and activity-dependent mechanisms. <i>Journal of Computational Neuroscience</i> , 2011, 31, 685-699.	0.6	11
29	Capacitance, Membrane. , 2014, , 1-5.		9
30	Stability and Homeostasis in Small Network Central Pattern Generators. , 2015, , 2858-2864.		3
31	Membrane Currents in Rhythmic Neurons. , 1990, , 417-423.		2
32	Not so bad. <i>Nature</i> , 1987, 329, 282-282.	13.7	0
33	Stability and Homeostasis in Small Network Central Pattern Generators. , 2014, , 1-8.		0
34	Capacitance, Membrane. , 2022, , 673-677.		0
35	Stability and Homeostasis in Small Network Central Pattern Generators. , 2022, , 3293-3299.		0