

# Patricio Orio

## List of Publications by Year in descending order

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46  
papers

2,172  
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448610

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371746

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all docs

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docs citations

56  
times ranked

2263  
citing authors

#	ARTICLE	IF	CITATIONS
1	Cholinergic neuromodulation of inhibitory interneurons facilitates functional integration in whole-brain models. PLoS Computational Biology, 2021, 17, e1008737.	1.5	11
2	High-Order Interdependencies in the Aging Brain. Brain Connectivity, 2021, 11, 734-744.	0.8	29
3	Structural Features of the Human Connectome That Facilitate the Switching of Brain Dynamics via Noradrenergic Neuromodulation. Frontiers in Computational Neuroscience, 2021, 15, 687075.	1.2	11
4	Selection of stimulus parameters for enhancing slow wave sleep events with a neural-field theory thalamocortical model. PLoS Computational Biology, 2021, 17, e1008758.	1.5	2
5	Diversity of neuronal activity is provided by hybrid synapses. Nonlinear Dynamics, 2021, 105, 2693-2710.	2.7	13
6	Constitutive Phosphorylation as a Key Regulator of TRPM8 Channel Function. Journal of Neuroscience, 2021, 41, 8475-8493.	1.7	11
7	Extracting temporal relationships between weakly coupled peptidergic and motoneuronal signaling: Application to Drosophila ecdysis behavior. PLoS Computational Biology, 2021, 17, e1008933.	1.5	0
8	Cortical ignition dynamics is tightly linked to the core organisation of the human connectome. PLoS Computational Biology, 2020, 16, e1007686.	1.5	14
9	Negative Modulation of TRPM8 Channel Function by Protein Kinase C in Trigeminal Cold Thermoreceptor Neurons. International Journal of Molecular Sciences, 2020, 21, 4420.	1.8	4
10	Cortical ignition dynamics is tightly linked to the core organisation of the human connectome. , 2020, 16, e1007686.		0
11	Cortical ignition dynamics is tightly linked to the core organisation of the human connectome. , 2020, 16, e1007686.		0
12	Cortical ignition dynamics is tightly linked to the core organisation of the human connectome. , 2020, 16, e1007686.		0
13	Cortical ignition dynamics is tightly linked to the core organisation of the human connectome. , 2020, 16, e1007686.		0
14	Role of TRPM8 Channels in Altered Cold Sensitivity of Corneal Primary Sensory Neurons Induced by Axonal Damage. Journal of Neuroscience, 2019, 39, 8177-8192.	1.7	38
15	Neurophysiological Muscle Activation Scheme for Controlling Vocal Fold Models. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2019, 27, 1043-1052.	2.7	9
16	An integrate-and-fire model to generate spike trains with long-range dependence. Journal of Computational Neuroscience, 2018, 44, 297-312.	0.6	8
17	Chaos versus noise as drivers of multistability in neural networks. Chaos, 2018, 28, 106321.	1.0	25
18	Synchronization transition in neuronal networks composed of chaotic or non-chaotic oscillators. Scientific Reports, 2018, 8, 8370.	1.6	21

#	ARTICLE	IF	CITATIONS
19	Role of the Excitability Brake Potassium Current $I_{K_D}$ in Cold Allodynia Induced by Chronic Peripheral Nerve Injury. <i>Journal of Neuroscience</i> , 2017, 37, 3109-3126.	1.7	43
20	26th Annual Computational Neuroscience Meeting (CNS*2017): Part 3. <i>BMC Neuroscience</i> , 2017, 18, .	0.8	7
21	IKD Current in Cold Transduction and Damage-Triggered Cold Hypersensitivity. <i>Advances in Experimental Medicine and Biology</i> , 2017, 1015, 265-277.	0.8	7
22	Hyperpolarization-Activated Current Induces Period-Doubling Cascades and Chaos in a Cold Thermoreceptor Model. <i>Frontiers in Computational Neuroscience</i> , 2017, 11, 12.	1.2	10
23	Modeling neural activity with cumulative damage distributions. <i>Biological Cybernetics</i> , 2015, 109, 421-433.	0.6	26
24	TRPM8-Dependent Dynamic Response in a Mathematical Model of Cold Thermoreceptor. <i>PLoS ONE</i> , 2015, 10, e0139314.	1.1	29
25	Mathematical Modeling of TRPM8 and the Cold Thermoreceptors. , 2015, , 209-223.		3
26	Diffusion approximation-based simulation of stochastic ion channels: which method to use?. <i>Frontiers in Computational Neuroscience</i> , 2014, 8, 139.	1.2	8
27	Mathematical analysis and modeling of motion direction selectivity in the retina. <i>Journal of Physiology (Paris)</i> , 2013, 107, 349-359.	2.1	7
28	Quantitative Analysis of Cell Migration Using Optical Flow. <i>PLoS ONE</i> , 2013, 8, e69574.	1.1	33
29	Role of $I_{h}$ in the firing pattern of mammalian cold thermoreceptor endings. <i>Journal of Neurophysiology</i> , 2012, 108, 3009-3023.	0.9	31
30	Simple, Fast and Accurate Implementation of the Diffusion Approximation Algorithm for Stochastic Ion Channels with Multiple States. <i>PLoS ONE</i> , 2012, 7, e36670.	1.1	32
31	A Cool Channel in Cold Transduction. <i>Physiology</i> , 2011, 26, 273-285.	1.6	50
32	Voltage Sensing in Thermo-TRP Channels. <i>Advances in Experimental Medicine and Biology</i> , 2011, 704, 517-530.	0.8	10
33	Ethanol exposure disrupts cell migration and cilia structure in developing embryos. <i>Developmental Biology</i> , 2011, 356, 198.	0.9	0
34	Characteristics and physiological role of hyperpolarization activated currents in mouse cold thermoreceptors. <i>Journal of Physiology</i> , 2009, 587, 1961-1976.	1.3	57
35	Slow Inactivation in <i>Shaker</i> K Channels Is Delayed by Intracellular Tetraethylammonium. <i>Journal of General Physiology</i> , 2008, 132, 633-650.	0.9	18
36	Structural Determinants for Functional Coupling Between the $\hat{I}^2$ and $\hat{I}_{\pm}$ Subunits in the $Ca^{2+}$ -activated $K^+$ (BK) Channel. <i>Journal of General Physiology</i> , 2006, 127, 191-204.	0.9	56

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37	Differential Effects of $\hat{1}$ and $\hat{2}$ Subunits on BK Channel Activity. Journal of General Physiology, 2005, 125, 395-411.	0.9	127
38	Clues to understanding cold sensation: Thermodynamics and electrophysiological analysis of the cold receptor TRPM8. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 15494-15499.	3.3	324
39	Gain-of-function mutation in the KCNMB1 potassium channel subunit is associated with low prevalence of diastolic hypertension. Journal of Clinical Investigation, 2004, 113, 1032-1039.	3.9	155
40	Gain-of-function mutation in the KCNMB1 potassium channel subunit is associated with low prevalence of diastolic hypertension. Journal of Clinical Investigation, 2004, 113, 1032-1039.	3.9	110
41	New Disguises for an Old Channel: MaxiK Channel $\hat{2}$ -Subunits. Physiology, 2002, 17, 156-161.	1.6	204
42	Apical sorting of a voltage- and $\text{Ca}^{2+}$ -activated $\text{K}^{+}$ channel $\alpha$ -subunit in Madin-Darby canine kidney cells is independent of N-glycosylation. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 13114-13119.	3.3	100
43	Neuropeptide Y induced inhibition of noradrenaline release in rat hypothalamus: role of receptor subtype and nitric oxide. Brain Research, 1999, 851, 87-93.	1.1	29
44	Acute Activation of Maxi-K Channels (hSlo) by Estradiol Binding to the $\hat{1}$ -Subunit. Science, 1999, 285, 1929-1931.	6.0	479
45	Mutagenesis and Temperature-Sensitive Little Machines. , 0, , .		4
46	Modeling Laryngeal Muscle Activation Noise for Low-Order Physiological Based Speech Synthesis. , 0, , .		0