Rodolfo R Llinas

List of Publications by Year
in descending order

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64	4,275	159585 30	155660 55
papers	citations	h-index	g-index

66	66	66	4220
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Bursting of Thalamic Neurons and States of Vigilance. Journal of Neurophysiology, 2006, 95, 3297-3308.	1.8	571
2	Subthreshold Na+-dependent theta-like rhythmicity in stellate cells of entorhinal cortex layer II. Nature, 1989, 342, 175-177.	27.8	510
3	I of the Vortex. , 2001, , .		378
4	Temporal binding via cortical coincidence detection of specific and nonspecific thalamocortical inputs: A voltage-dependent dye-imaging study in mouse brain slices. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 449-454.	7.1	259
5	Imaging of Thalamocortical Dysrhythmia in Neuropsychiatry. Frontiers in Human Neuroscience, 2011, 5, 69.	2.0	143
6	Normal motor learning during pharmacological prevention of Purkinje cell long-term depression. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 17166-17171.	7.1	125
7	Voltage-Dependent Calcium Conductances in Mammalian Neurons.. Annals of the New York Academy of Sciences, 1989, 560, 103-111.	3.8	123
8	Modafinil enhances thalamocortical activity by increasing neuronal electrotonic coupling. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 12554-12559.	7.1	121
9	Synaptic transmission block by presynaptic injection of oligomeric amyloid beta. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 5901-5906.	7.1	100
10	Inhibition of NMDARs in the nucleus reticularis of the thalamus produces delta frequency bursting. Frontiers in Neural Circuits, 2009, 3, 20.	2.8	99
11	The effectiveness of different isomers of octanol as blockers of harmaline-induced tremor. Pflugers Archiv European Journal of Physiology, 1989, 414, 31-36.	2.8	96
12	Î³-Band deficiency and abnormal thalamocortical activity in P/Q-type channel mutant mice. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 17819-17824.	7.1	94
13	Synaptic Vesicle Exocytosis in Hippocampal Synaptosomes Correlates Directly with Total Mitochondrial Volume. Journal of Molecular Neuroscience, 2013, 49, 223-230.	2.3	87
14	Neuro-vascular central nervous recording/stimulating system: Using nanotechnology probes. Journal of Nanoparticle Research, 2005, 7, 111-127.	1.9	86
15	The contribution of Santiago Ramon y Cajal to functional neuroscience. Nature Reviews Neuroscience, 2003, 4, 77-80.	10.2	79
16	Intrinsic electrical properties of mammalian neurons and CNS function: a historical perspective. Frontiers in Cellular Neuroscience, 2014, 8, 320.	3.7	71
17	The Cortex of the Cerebellum. Scientific American, 1975, 232, 56-71.	1.0	67
18	The olivo-cerebellar system: a key to understanding the functional significance of intrinsic oscillatory brain properties. Frontiers in Neural Circuits, 2013, 7, 96.	2.8	66

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19	Properties of Calcium Channels Isolated with Spider Toxin, FTX. Annals of the New York Academy of Sciences, 1991, 635, 80-89.	3.8	59
20	Apical tuft input efficacy in layer 5 pyramidal cells from rat visual cortex. Journal of Physiology, 2001, 536, 167-187.	2.9	56
21	The â€˜prediction imperativeâ€™ as the basis for self-awareness. Philosophical Transactions of the Royal Society B: Biological Sciences, 2009, 364, 1301-1307.	4.0	55
22	Subthreshold membrane potential oscillations in inferior olive neurons are dynamically regulated by P/Q- and T-type calcium channels: a study in mutant mice. Journal of Physiology, 2010, 588, 3031-3043.	2.9	55
23	Calcium clearance and its energy requirements in cerebellar neurons. Cell Calcium, 2010, 47, 507-513.	2.4	54
24	A global model of neuronal command-control systems. BioSystems, 1977, 8, 233-235.	2.0	52
25	Pathophysiological implication of Ca _V 3.1 T-type Ca ²⁺ channels in trigeminal neuropathic pain. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 2270-2275.	7.1	51
26	Cerebellar motor learning versus cerebellar motor timing: the climbing fibre story. Journal of Physiology, 2011, 589, 3423-3432.	2.9	50
27	Rebound excitation as the physiological basis for tremor: a biophysical study of the oscillatory properties of mammalian central neurones in vitro. , 1984, , 165-182.		50
28	Rostrocaudal Scan in Human Brain: A Global Characteristic of the 40-Hz Response During Sensory Input. , 1992, , 147-154.		41
29	Imaging synaptosomal calcium concentration microdomains and vesicle fusion by using total internal reflection fluorescent microscopy. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 1697-1702.	7.1	34
30	Cerebellar modelling. Nature, 1981, 291, 279-280.	27.8	33
31	Depolarization Release Coupling: An Overview. Annals of the New York Academy of Sciences, 1991, 635, 3-17.	3.8	33
32	Cortical activation patterns evoked by afferent axons stimuli at different frequencies: an in vitro voltage-sensitive dye imaging study. Thalamus & Related Systems, 2002, 1, 371-378.	0.5	32
33	Somatomotor and oculomotor inferior olivary neurons have distinct electrophysiological phenotypes. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 16550-16555.	7.1	32
34	1-Methyl-4-phenylpyridinium induces synaptic dysfunction through a pathway involving caspase and PKCÂ enzymatic activities. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 2437-2441.	7.1	32
35	Intravascular neural interface with nanowire electrode. Electronics and Communications in Japan, 2009, 92, 29-37.	0.5	32
36	Altered thalamocortical rhythmicity and connectivity in mice lacking Ca _V 3.1 T-type Ca ²⁺ channels in unconsciousness. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 7839-7844.	7.1	31

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37	Blocking Effects of Human Tau on Squid Giant Synapse Transmission and Its Prevention by T-817 MA. Frontiers in Synaptic Neuroscience, 2011, 3, 3.	2.5	30
38	Vesicular reuptake inhibition by a synaptotagmin I C2B domain antibody at the squid giant synapse. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 17855-17860.	7.1	28
39	Cocaine Acute â€œBingeâ€•Administration Results in Altered Thalamocortical Interactions in Mice. Biological Psychiatry, 2009, 66, 769-776.	1.3	28
40	Reconstruction of human brain spontaneous activity based on frequency-pattern analysis of magnetoencephalography data. Frontiers in Neuroscience, 2015, 9, 373.	2.8	28
41	Purkinje cell long-term depression is prevented by T-588, a neuroprotective compound that reduces cytosolic calcium release from intracellular stores. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 17160-17165.	7.1	27
42	Frequency-pattern functional tomography of magnetoencephalography data allows new approach to the study of human brain organization. Frontiers in Neural Circuits, 2014, 8, 43.	2.8	26
43	Effects of T-type calcium channel blockers on cocaine-induced hyperlocomotion and thalamocortical GABAergic abnormalities in mice. Psychopharmacology, 2010, 212, 205-214.	3.1	25
44	Role of Rab27 in synaptic transmission at the squid giant synapse. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 16003-16008.	7.1	23
45	The Squid Giant Synapse. Current Topics in Membranes and Transport, 1984, , 519-546.	0.6	18
46	Broadening the definition of a nervous system to better understand the evolution of plants and animals. Plant Signaling and Behavior, 2021, 16, 1927562.	2.4	17
47	Enhanced Interplay of Neuronal Coherence and Coupling in the Dying Human Brain. Frontiers in Aging Neuroscience, 2022, 14, 813531.	3.4	16
48	Enhanced synaptic transmission at the squid giant synapse by artificial seawater based on physically modified saline. Frontiers in Synaptic Neuroscience, 2014, 6, 2.	2.5	15
49	RNS60, a charge-stabilized nanostructure saline alters Xenopus Laevis oocyte biophysical membrane properties by enhancing mitochondrial ATP production. Physiological Reports, 2015, 3, e12261.	1.7	13
50	Noninvasive muscle activity imaging using magnetography. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 4942-4947.	7.1	13
51	9 Localization of calcium concentration microdomains at the active zone in the squid giant synapse. Advances in Second Messenger and Phosphoprotein Research, 1994, 29, 133-II.	4.5	13
52	Cerebellar Control of Movement. , 1981, , 231-302.		10
53	Oscillations in CNS Neurons: A Possible Role for Cortical Interneurons in the Generation of 40-Hz Oscillations. , 1992, , 269-283.		10
54	Commentary on â€œElectrophysiological Properties of in vitro Purkinje Cell Dendrites in Mammalian Cerebellar Slices. J Physiol 1980;305:197â€“213.â€• Cerebellum, 2012, 11, 629-629.	2.5	8

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55	Poststroke acute dysexecutive syndrome, a disorder resulting from minor stroke due to disruption of network dynamics. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 33578-33585.	7.1	8
56	Oral Administration of Pharmacologically Active Substances to Squid: A Methodological Description. Biological Bulletin, 2009, 216, 1-6.	1.8	7
57	The first-order giant neurons of the giant fiber system in the squid: electrophysiological and ultrastructural observations. Journal of Neurocytology, 1998, 27, 419-429.	1.5	6
58	Neuromuscular transmission and muscle fatigue changes by nanostructured oxygen. Muscle and Nerve, 2017, 55, 555-563.	2.2	5
59	Differential Modulation of Rhythmic Brain Activity in Healthy Adults by a T-Type Calcium Channel Blocker: An MEG Study. Frontiers in Human Neuroscience, 2017, 11, 24.	2.0	4
60	Umwelt: A Psychomotor Functional Event. Research and Perspectives in Neurosciences, 2009, , 29-37.	0.4	1
61	Central Pain. , 2014, , 61-74.		0
62	Oscillation in the Inferior Olive Neurons: Functional Implication. , 2016, , 293-298.		0
63	MODELING CEREBELLAR DYNAMICS. , 2002, , .		0
64	Intra-Vascular Neural Interface with Nano-Wire Electrode. IEEJ Transactions on Electronics, Information and Systems, 2007, 127, 1537-1543.	0.2	0