Rodolfo R Llinas

List of Publications by Year
in descending order

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64 papers	4,275 citations	182225 30 h-index	175968 55 g-index
66 all docs	66 docs citations	66 times ranked	4744 citing authors

#	Article	IF	Citations
1	Enhanced Interplay of Neuronal Coherence and Coupling in the Dying Human Brain. Frontiers in Aging Neuroscience, 2022, 14, 813531.	1.7	16
2	Broadening the definition of a nervous system to better understand the evolution of plants and animals. Plant Signaling and Behavior, 2021, 16, 1927562.	1.2	17
3	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.	3.3	8
4	Noninvasive muscle activity imaging using magnetography. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 4942-4947.	3.3	13
5	Neuromuscular transmission and muscle fatigue changes by nanostructured oxygen. Muscle and Nerve, 2017, 55, 555-563.	1.0	5
6	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.	1.0	4
7	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.	3.3	51
8	Oscillation in the Inferior Olive Neurons: Functional Implication. , 2016, , 293-298.		0
9	RNS60, a charge-stabilized nanostructure saline alters Xenopus Laevis oocyte biophysical membrane properties by enhancing mitochondrial ATP production. Physiological Reports, 2015, 3, e12261.	0.7	13
10	Reconstruction of human brain spontaneous activity based on frequency-pattern analysis of magnetoencephalography data. Frontiers in Neuroscience, 2015, 9, 373.	1.4	28
11	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.	3.3	31
12	Frequency-pattern functional tomography of magnetoencephalography data allows new approach to the study of human brain organization. Frontiers in Neural Circuits, 2014, 8, 43.	1.4	26
13	Enhanced synaptic transmission at the squid giant synapse by artificial seawater based on physically modified saline. Frontiers in Synaptic Neuroscience, 2014, 6, 2.	1.3	15
14	Central Pain. , 2014, , 61-74.		0
15	Intrinsic electrical properties of mammalian neurons and CNS function: a historical perspective. Frontiers in Cellular Neuroscience, 2014, 8, 320.	1.8	71
16	Synaptic Vesicle Exocytosis in Hippocampal Synaptosomes Correlates Directly with Total Mitochondrial Volume. Journal of Molecular Neuroscience, 2013, 49, 223-230.	1.1	87
17	The olivo-cerebellar system: a key to understanding the functional significance of intrinsic oscillatory brain properties. Frontiers in Neural Circuits, 2013, 7, 96.	1.4	66
18	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.	1.4	8

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19	Imaging of Thalamocortical Dysrhythmia in Neuropsychiatry. Frontiers in Human Neuroscience, 2011, 5, 69.	1.0	143
20	Blocking Effects of Human Tau on Squid Giant Synapse Transmission and Its Prevention by T-817 MA. Frontiers in Synaptic Neuroscience, 2011, 3, 3.	1.3	30
21	Cerebellar motor learning versus cerebellar motor timing: the climbing fibre story. Journal of Physiology, 2011, 589, 3423-3432.	1.3	50
22	Effects of T-type calcium channel blockers on cocaine-induced hyperlocomotion and thalamocortical GABAergic abnormalities in mice. Psychopharmacology, 2010, 212, 205-214.	1.5	25
23	Calcium clearance and its energy requirements in cerebellar neurons. Cell Calcium, 2010, 47, 507-513.	1.1	54
24	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.	1.3	55
25	Oral Administration of Pharmacologically Active Substances to Squid: A Methodological Description. Biological Bulletin, 2009, 216, 1-6.	0.7	7
26	Inhibition of NMDARs in the nucleus reticularis of the thalamus produces delta frequency bursting. Frontiers in Neural Circuits, 2009, 3, 20.	1.4	99
27	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.	3.3	100
28	The â€˜prediction imperativeâ€™ as the basis for self-awareness. Philosophical Transactions of the Royal Society B: Biological Sciences, 2009, 364, 1301-1307.	1.8	55
29	Intravascular neural interface with nanowire electrode. Electronics and Communications in Japan, 2009, 92, 29-37.	0.3	32
30	Cocaine Acute â€œBingeâ€•Administration Results in Altered Thalamocortical Interactions in Mice. Biological Psychiatry, 2009, 66, 769-776.	0.7	28
31	Umwelt: A Psychomotor Functional Event. Research and Perspectives in Neurosciences, 2009, , 29-37.	0.4	1
32	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.	3.3	23
33	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.	3.3	94
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.	3.3	32
35	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.	3.3	121
36	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.	3.3	34

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37	Intra-Vascular Neural Interface with Nano-Wire Electrode. IEEJ Transactions on Electronics, Information and Systems, 2007, 127, 1537-1543.	0.1	0
38	Bursting of Thalamic Neurons and States of Vigilance. Journal of Neurophysiology, 2006, 95, 3297-3308.	0.9	571
39	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.	3.3	32
40	Neuro-vascular central nervous recording/stimulating system: Using nanotechnology probes. Journal of Nanoparticle Research, 2005, 7, 111-127.	0.8	86
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.	3.3	27
42	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.	3.3	125
43	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.	3.3	28
44	The contribution of Santiago Ramon y Cajal to functional neuroscience. Nature Reviews Neuroscience, 2003, 4, 77-80.	4.9	79
45	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.	3.3	259
46	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
47	MODELING CEREBELLAR DYNAMICS. , 2002, , .		0
48	Apical tuft input efficacy in layer 5 pyramidal cells from rat visual cortex. Journal of Physiology, 2001, 536, 167-187.	1.3	56
49	I of the Vortex. , 2001, , .		378
50	The first-order giant neurons of the giant fiber system in the squid: electrophysiological and ultrastructural observations. Journal of Neurocytology, 1998, 27, 419-429.	1.6	6
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	Oscillations in CNS Neurons: A Possible Role for Cortical Interneurons in the Generation of 40-Hz Oscillations. , 1992, , 269-283.		10
53	Rostrocaudal Scan in Human Brain: A Global Characteristic of the 40-Hz Response During Sensory Input. , 1992, , 147-154.		41
54	Depolarization Release Coupling: An Overview. Annals of the New York Academy of Sciences, 1991, 635, 3-17.	1.8	33

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55	Properties of Calcium Channels Isolated with Spider Toxin, FTX. Annals of the New York Academy of Sciences, 1991, 635, 80-89.	1.8	59
56	The effectiveness of different isomers of octanol as blockers of harmaline-induced tremor. Pflugers Archiv European Journal of Physiology, 1989, 414, 31-36.	1.3	96
57	Subthreshold Na+-dependent theta-like rhythmicity in stellate cells of entorhinal cortex layer II. Nature, 1989, 342, 175-177.	13.7	510
58	Voltage-Dependent Calcium Conductances in Mammalian Neurons.. Annals of the New York Academy of Sciences, 1989, 560, 103-111.	1.8	123
59	The Squid Giant Synapse. Current Topics in Membranes and Transport, 1984, , 519-546.	0.6	18
60	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
61	Cerebellar modelling. Nature, 1981, 291, 279-280.	13.7	33
62	Cerebellar Control of Movement. , 1981, , 231-302.		10
63	A global model of neuronal command-control systems. BioSystems, 1977, 8, 233-235.	0.9	52
64	The Cortex of the Cerebellum. Scientific American, 1975, 232, 56-71.	1.0	67