

Pablo Rudomin

List of Publications by Year in descending order

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73
papers

3,289
citations

147801

31
h-index

155660

55
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74
all docs

74
docs citations

74
times ranked

1141
citing authors

#	ARTICLE	IF	CITATIONS
1	Presynaptic inhibition in the vertebrate spinal cord revisited. <i>Experimental Brain Research</i> , 1999, 129, 1-37.	1.5	634
2	Presynaptic inhibition of muscle spindle and tendon organ afferents in the mammalian spinal cord. <i>Trends in Neurosciences</i> , 1990, 13, 499-505.	8.6	218
3	Sites of action of segmental and descending control of transmission on pathways mediating PAD of Ia- and Ib-afferent fibers in cat spinal cord. <i>Journal of Neurophysiology</i> , 1983, 50, 743-769.	1.8	126
4	Observations on neuronal pathways subserving primary afferent depolarization.. <i>Journal of Neurophysiology</i> , 1981, 46, 506-516.	1.8	109
5	In search of lost presynaptic inhibition. <i>Experimental Brain Research</i> , 2009, 196, 139-151.	1.5	102
6	Synaptic potentials of primary afferent fibers and motoneurons evoked by single intermediate nucleus interneurons in the cat spinal cord. <i>Journal of Neurophysiology</i> , 1987, 57, 1288-1313.	1.8	101
7	Local control of information flow in segmental and ascending collaterals of single afferents. <i>Nature</i> , 1998, 395, 600-604.	27.8	91
8	PAD and PAH response patterns of group Ia- and Ib-fibers to cutaneous and descending inputs in the cat spinal cord. <i>Journal of Neurophysiology</i> , 1986, 56, 987-1006.	1.8	85
9	Mechanisms involved in presynaptic depolarization of group I and rubrospinal fibers in cat spinal cord.. <i>Journal of Neurophysiology</i> , 1981, 46, 532-548.	1.8	84
10	Excitability changes of ankle extensor group Ia and Ib fibers during fictive locomotion in the cat. <i>Experimental Brain Research</i> , 1988, 70, 15-25.	1.5	77
11	Effects of conditioning afferent volleys on variability of monosynaptic responses of extensor motoneurons.. <i>Journal of Neurophysiology</i> , 1969, 32, 140-157.	1.8	74
12	Supraspinal control of a short-latency cutaneous pathway to hindlimb motoneurons. <i>Experimental Brain Research</i> , 1988, 69, 449-59.	1.5	70
13	Primary afferent depolarization and flexion reflexes produced by radiant heat stimulation of the skin. <i>Journal of Physiology</i> , 1971, 213, 185-214.	2.9	62
14	The influence of the gamma system on cross-correlated activity of Ia muscle spindles and its relation to information transmission. <i>Neuroscience Letters</i> , 1979, 13, 73-78.	2.1	60
15	Selective cortical control of information flow through different intraspinal collaterals of the same muscle afferent fiber. <i>Brain Research</i> , 1994, 643, 328-333.	2.2	56
16	Presynaptic inhibition induced by vagal afferent volleys.. <i>Journal of Neurophysiology</i> , 1967, 30, 964-981.	1.8	54
17	Primary afferent hyperpolarization and presynaptic facilitation of Ia afferent terminals induced by large cutaneous fibers.. <i>Journal of Neurophysiology</i> , 1974, 37, 413-429.	1.8	49
18	Control by Preynaptic Correlation: a mechanism affecting information transmission from Ia fibers to motoneurons. <i>Journal of Neurophysiology</i> , 1975, 38, 267-284.	1.8	49

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19	PAD patterns of physiologically identified afferent fibres from the medial gastrocnemius muscle. <i>Experimental Brain Research</i> , 1988, 71, 643-657.	1.5	48
20	Activation of brainstem serotonergic pathways decreases homosynaptic depression of monosynaptic responses of frog spinal motoneurons. <i>Brain Research</i> , 1983, 280, 373-378.	2.2	44
21	Selective cortical and segmental control of primary afferent depolarization of single muscle afferents in the cat spinal cord. <i>Experimental Brain Research</i> , 1997, 113, 411-430.	1.5	41
22	Modulation of synaptic effectiveness of Ia and descending fibers in cat spinal cord. <i>Journal of Neurophysiology</i> , 1975, 38, 1181-1195.	1.8	40
23	Identification of common interneurons mediating pre- and postsynaptic inhibition in the cat spinal cord. <i>Science</i> , 1984, 224, 1453-1456.	12.6	40
24	Mechanisms involved in the depolarization of cutaneous afferents produced by segmental and descending inputs in the cat spinal cord. <i>Experimental Brain Research</i> , 1987, 69, 195-207.	1.5	40
25	Presynaptic depolarization of unmyelinated primary afferent fibers in the spinal cord of the cat. <i>Neuroscience</i> , 1982, 7, 1389-1400.	2.3	39
26	Pharmacologic analysis of inhibition produced by last-order intermediate nucleus interneurons mediating nonreciprocal inhibition of motoneurons in cat spinal cord. <i>Journal of Neurophysiology</i> , 1990, 63, 147-160.	1.8	39
27	Modulation of synaptic transmission from segmental afferents by spontaneous activity of dorsal horn spinal neurones in the cat. <i>Journal of Physiology</i> , 2000, 529, 445-460.	2.9	38
28	Selectivity of the Central Control of Sensory Information in the Mammalian Spinal Cord. <i>Advances in Experimental Medicine and Biology</i> , 2002, 508, 157-170.	1.6	34
29	Segmental and supraspinal control of synaptic effectiveness of functionally identified muscle afferents in the cat. <i>Experimental Brain Research</i> , 1996, 107, 391-404.	1.5	33
30	Patterns of connectivity of spinal interneurons with single muscle afferents. <i>Experimental Brain Research</i> , 1997, 115, 387-402.	1.5	33
31	Effect of muscle and cutaneous afferent nerve volleys on excitability fluctuations of Ia terminals. <i>Journal of Neurophysiology</i> , 1969, 32, 158-169.	1.8	31
32	Primary Afferent Depolarization Evoked by a Painful Stimulus. <i>Science</i> , 1969, 165, 184-186.	12.6	31
33	Primary afferent depolarization of muscle afferents elicited by stimulation of joint afferents in cats with intact neuraxis and during reversible spinalization. <i>Journal of Neurophysiology</i> , 1993, 70, 1899-1910.	1.8	31
34	Raphe magnus and reticulospinal actions on primary afferent depolarization of group I muscle afferents in the cat. <i>Journal of Physiology</i> , 1995, 482, 623-640.	2.9	29
35	A method for the dynamic continuous estimation of excitability changes of single fiber terminals in the central nervous system. <i>Neuroscience Letters</i> , 1979, 11, 253-258.	2.1	28
36	Differential action of (?)-baclofen on the primary afferent depolarization produced by segmental and descending inputs. <i>Experimental Brain Research</i> , 1992, 91, 29-45.	1.5	28

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37	Intersegmental synchronization of spontaneous activity of dorsal horn neurons in the cat spinal cord. <i>Experimental Brain Research</i> , 2003, 148, 401-413.	1.5	28
38	Changes in correlation between monosynaptic responses of single motoneurons and in information transmission produced by conditioning volleys to cutaneous nerves.. <i>Journal of Neurophysiology</i> , 1972, 35, 44-64.	1.8	25
39	Interaction of baseline synaptic noise and Ia EPSPs: evidence for appreciable negative correlation under physiological conditions. <i>Journal of Neurophysiology</i> , 1991, 65, 927-945.	1.8	24
40	Changes in correlation between spontaneous activity of dorsal horn neurones lead to differential recruitment of inhibitory pathways in the cat spinal cord. <i>Journal of Physiology</i> , 2012, 590, 1563-1584.	2.9	24
41	Effects of Presynaptic and Postsynaptic Inhibition on the Variability of the Monosynaptic Reflex. <i>Nature</i> , 1967, 216, 292-293.	27.8	22
42	Specific and nonspecific mechanisms involved in generation of PAD of group Ia afferents in cat spinal cord. <i>Journal of Neurophysiology</i> , 1984, 52, 921-940.	1.8	21
43	Evidence of two different mechanisms involved in the generation of presynaptic depolarization of afferent and rubrospinal fibers in the cat spinal cord. <i>Brain Research</i> , 1980, 189, 256-261.	2.2	20
44	Multichannel Detrended Fluctuation Analysis Reveals Synchronized Patterns of Spontaneous Spinal Activity in Anesthetized Cats. <i>PLoS ONE</i> , 2011, 6, e26449.	2.5	20
45	Changes in PAD patterns of group I muscle afferents after a peripheral nerve crush. <i>Experimental Brain Research</i> , 1996, 107, 405-20.	1.5	18
46	Differential modulation of primary afferent depolarization of segmental and ascending intraspinal collaterals of single muscle afferents in the cat spinal cord. <i>Experimental Brain Research</i> , 2004, 156, 377-391.	1.5	18
47	Specific and potassium components in the depolarization of the Ia afferents in the spinal cord of the cat. <i>Brain Research</i> , 1983, 272, 179-184.	2.2	17
48	Chapter 9 Selectivity of Presynaptic Inhibition: a Mechanism for Independent Control of Information Flow through Individual Collaterals of Single Muscle Spindle Afferents. <i>Progress in Brain Research</i> , 1999, 123, 109-117.	1.4	15
49	Tonic differential supraspinal modulation of PAD and PAH of segmental and ascending intraspinal collaterals of single group I muscle afferents in the cat spinal cord. <i>Experimental Brain Research</i> , 2004, 159, 239-250.	1.5	15
50	Dynamic synchronization of ongoing neuronal activity across spinal segments regulates sensory information flow. <i>Journal of Physiology</i> , 2015, 593, 2343-2363.	2.9	15
51	Effects of spinal and peripheral nerve lesions on the intersegmental synchronization of the spontaneous activity of dorsal horn neurons in the cat lumbosacral spinal cord. <i>Neuroscience Letters</i> , 2004, 361, 102-105.	2.1	13
52	Changes in synaptic effectiveness of myelinated joint afferents during capsaicin-induced inflammation of the footpad in the anesthetized cat. <i>Experimental Brain Research</i> , 2008, 187, 71-84.	1.5	12
53	Changes in correlation between monosynaptic reflexes produced by conditioning afferent volleys.. <i>Journal of Neurophysiology</i> , 1969, 32, 759-772.	1.8	11
54	Tonic and phasic differential GABAergic inhibition of synaptic actions of joint afferents in the cat. <i>Experimental Brain Research</i> , 2006, 176, 98-118.	1.5	11

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55	Supraspinal modulation of neuronal synchronization by nociceptive stimulation induces an enduring reorganization of dorsal horn neuronal connectivity. <i>Journal of Physiology</i> , 2018, 596, 1747-1776.	2.9	11
56	CONTRIBUTION OF LOCAL ACTIVITY AND ELECTRIC SPREAD TO SOMATICALLY EVOKED POTENTIALS IN DIFFERENT AREAS OF THE HYPOTHALAMUS. <i>Archives Italiennes De Biologie</i> , 1965, 103, 119-35.	0.4	11
57	Primary afferent depolarization produced in A δ and C fibres by glutamate spillover? New ways to look at old things. <i>Journal of Physiology</i> , 2000, 528, 1-1.	2.9	10
58	Chapter 31 Central control of information transmission through the intraspinal arborizations of sensory fibers examined 100 years after Ramón y Cajal. <i>Progress in Brain Research</i> , 2002, 136, 409-421.	1.4	10
59	Persistence of PAD and presynaptic inhibition of muscle spindle afferents after peripheral nerve crush. <i>Brain Research</i> , 2004, 1027, 179-187.	2.2	9
60	Effects of pad on conduction of action potentials within segmental and ascending branches of single muscle afferents in the cat spinal cord. <i>Experimental Brain Research</i> , 2000, 135, 204-214.	1.5	7
61	A machine learning methodology for the selection and classification of spontaneous spinal cord dorsum potentials allows disclosure of structured (non-random) changes in neuronal connectivity induced by nociceptive stimulation. <i>Frontiers in Neuroinformatics</i> , 2015, 9, 21.	2.5	7
62	Patterns of primary afferent depolarization of segmental and ascending intraspinal collaterals of single joint afferents in the cat. <i>Experimental Brain Research</i> , 2006, 176, 119-131.	1.5	6
63	Supraspinal Shaping of Adaptive Transitions in the State of Functional Connectivity Between Segmentally Distributed Dorsal Horn Neuronal Populations in Response to Nociception and Antinociception. <i>Frontiers in Systems Neuroscience</i> , 2019, 13, 47.	2.5	5
64	Markovian Analysis of the Sequential Behavior of the Spontaneous Spinal Cord Dorsum Potentials Induced by Acute Nociceptive Stimulation in the Anesthetized Cat. <i>Frontiers in Computational Neuroscience</i> , 2017, 11, 32.	2.1	4
65	Central Control of Sensory Information. <i>Research Notes in Neural Computing</i> , 1993, , 116-135.	0.1	4
66	A new feature extraction method for signal classification applied to cord dorsum potential detection. <i>Journal of Neural Engineering</i> , 2012, 9, 056009.	3.5	3
67	Differential presynaptic control of the synaptic effectiveness of cutaneous afferents evidenced by effects produced by acute nerve section. <i>Journal of Physiology</i> , 2013, 591, 2629-2645.	2.9	3
68	Modeling zero-lag synchronization of dorsal horn neurons during the traveling of electrical waves in the cat spinal cord. <i>Physiological Reports</i> , 2013, 1, e00021.	1.7	3
69	Descending inhibition selectively counteracts the capsaicin-induced facilitation of dorsal horn neurons activated by joint nociceptive afferents. <i>Experimental Brain Research</i> , 2019, 237, 1629-1641.	1.5	2
70	Nociception induces a differential presynaptic modulation of the synaptic efficacy of nociceptive and proprioceptive joint afferents. <i>Experimental Brain Research</i> , 2021, 239, 2375-2397.	1.5	2
71	Discrete field potentials produced by coherent activation of spinal dorsal horn neurons. <i>Experimental Brain Research</i> , 2022, 240, 665-686.	1.5	2
72	Intersegmental Synchronization of Spontaneous Cord Dorsum Potentials as a Clinical Parameter to Evaluate Changes in Neuronal Connectivity Produced by Peripheral Nerve and Spinal Cord Damage. <i>Biosystems and Biorobotics</i> , 2013, , 563-567.	0.3	1

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73	Primary afferent depolarization and presynaptic inhibition in the mammalian spinal cord. Puerto Rico Health Sciences Journal, 1988, 7, 155-66.	0.2	0