

Daniel Zytnicki

List of Publications by Year in descending order

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49
papers

2,100
citations

279798

23
h-index

243625

44
g-index

51
all docs

51
docs citations

51
times ranked

1346
citing authors

#	ARTICLE	IF	CITATIONS
1	Lamina VIII interneurons interposed in crossed reflex pathways in the cat.. Journal of Physiology, 1986, 371, 147-166.	2.9	165
2	Labelling of interneurons by retrograde transsynaptic transport of horseradish peroxidase from motoneurons in rats and cats. Neuroscience Letters, 1984, 45, 15-19.	2.1	142
3	Early intrinsic hyperexcitability does not contribute to motoneuron degeneration in amyotrophic lateral sclerosis. ELife, 2014, 3, .	6.0	136
4	Adult spinal motoneurons are not hyperexcitable in a mouse model of inherited amyotrophic lateral sclerosis. Journal of Physiology, 2014, 592, 1687-1703.	2.9	128
5	Responses of tendon organs to unfused contractions of single motor units. Journal of Neurophysiology, 1985, 53, 32-42.	1.8	116
6	Hypoexcitability precedes denervation in the large fast-contracting motor units in two unrelated mouse models of ALS. ELife, 2018, 7, .	6.0	111
7	Motor nuclei of peroneal muscles in the cat spinal cord. Journal of Comparative Neurology, 1988, 277, 430-440.	1.6	110
8	Force encoding in muscle spindles during stretch of passive muscle. PLoS Computational Biology, 2017, 13, e1005767.	3.2	104
9	Effects of muscle shortening on the responses of cat tendon organs to unfused contractions. Journal of Neurophysiology, 1988, 59, 1510-1523.	1.8	102
10	Fast Kinetics, High-Frequency Oscillations, and Subprimary Firing Range in Adult Mouse Spinal Motoneurons. Journal of Neuroscience, 2009, 29, 11246-11256.	3.6	78
11	Reduction of Ib autogenetic inhibition in motoneurons during contractions of an ankle extensor muscle in the cat. Journal of Neurophysiology, 1990, 64, 1380-1389.	1.8	66
12	MuSK Frizzled-Like Domain Is Critical for Mammalian Neuromuscular Junction Formation and Maintenance. Journal of Neuroscience, 2015, 35, 4926-4941.	3.6	59
13	ALPHA, BETA AND GAMMA MOTONEURONS: FUNCTIONAL DIVERSITY IN THE MOTOR SYSTEM'S FINAL PATHWAY. Journal of Integrative Neuroscience, 2011, 10, 243-276.	1.7	56
14	Mixed Mode Oscillations in Mouse Spinal Motoneurons Arise from a Low Excitability State. Journal of Neuroscience, 2011, 31, 5829-5840.	3.6	51
15	After-effects of repetitive stimulation at low frequency on fast-contracting motor units of cat muscle.. Journal of Physiology, 1983, 340, 129-143.	2.9	48
16	Depolarization of Ib afferent axons in the cat spinal cord during homonymous muscle contraction.. Journal of Physiology, 1992, 445, 345-354.	2.9	42
17	Resonant or Not, Two Amplification Modes of Proprioceptive Inputs by Persistent Inward Currents in Spinal Motoneurons. Journal of Neuroscience, 2007, 27, 12977-12988.	3.6	42
18	Synaptic restoration by cAMP/PKA drives activity-dependent neuroprotection to motoneurons in ALS. Journal of Experimental Medicine, 2020, 217, .	8.5	40

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19	Crossed actions of group I muscle afferents in the cat.. Journal of Physiology, 1984, 356, 263-273.	2.9	38
20	Ensemble discharge from Golgi tendon organs of cat peroneus tertius muscle. Journal of Neurophysiology, 1990, 64, 813-821.	1.8	36
21	Indications for GABA-Immunoreactive Axo-Axonic Contacts on the Intraspinal Arborization of a Ib Fiber in Cat: A Confocal Microscope Study. Journal of Neuroscience, 1998, 18, 10030-10036.	3.6	33
22	How shunting inhibition affects the discharge of lumbar motoneurons: a dynamic clamp study in anaesthetized cats. Journal of Physiology, 2004, 558, 671-683.	2.9	32
23	The afterhyperpolarization conductance exerts the same control over the gain and variability of motoneurone firing in anaesthetized cats. Journal of Physiology, 2006, 576, 873-886.	2.9	32
24	Kv1.2 Channels Promote Nonlinear Spiking Motoneurons for Powering Up Locomotion. Cell Reports, 2018, 22, 3315-3327.	6.4	27
25	Reduction of presynaptic action potentials by PAD: model and experimental study. Journal of Computational Neuroscience, 1998, 5, 141-156.	1.0	23
26	How Much Afterhyperpolarization Conductance Is Recruited by an Action Potential? A Dynamic-Clamp Study in Cat Lumbar Motoneurons. Journal of Neuroscience, 2005, 25, 8917-8923.	3.6	23
27	Quantitative evidence for multiple widespread representations of individual muscles in the cat motor cortex. Neuroscience Letters, 2001, 310, 183-187.	2.1	22
28	Synaptic disruption and CREB-regulated transcription are restored by K ⁺ channel blockers in ALS. EMBO Molecular Medicine, 2021, 13, e13131.	6.9	22
29	Is hyperexcitability really guilty in amyotrophic lateral sclerosis?. Neural Regeneration Research, 2015, 10, 1413.	3.0	22
30	Distribution of physiological types of motor units in the cat peroneus tertius muscle. Experimental Brain Research, 1982, 48, 177-84.	1.5	21
31	Action of dantrolene sodium on single motor units of cat muscle in vivo. Brain Research, 1983, 261, 285-294.	2.2	16
32	Postnatal development of peroneal motoneurons in the kitten. Developmental Brain Research, 1990, 54, 205-215.	1.7	14
33	Declining inhibition in ipsi- and contralateral lumbar motoneurons during contractions of an ankle extensor muscle in the cat. Journal of Neurophysiology, 1993, 70, 1797-1804.	1.8	14
34	Contraction-induced excitation in cat peroneal motoneurons. Journal of Neurophysiology, 1995, 73, 974-982.	1.8	14
35	Potassium currents dynamically set the recruitment and firing properties of F-type motoneurons in neonatal mice. Journal of Neurophysiology, 2015, 114, 1963-1973.	1.8	14
36	Molecular and electrophysiological properties of mouse motoneuron and motor unit subtypes. Current Opinion in Physiology, 2019, 8, 23-29.	1.8	14

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37	Declining inhibition elicited in cat lumbar motoneurons by repetitive stimulation of group II muscle afferents. <i>Journal of Neurophysiology</i> , 1993, 70, 1805-1810.	1.8	12
38	Effects on Peroneal Motoneurons of Cutaneous Afferents Activated by Mechanical or Electrical Stimulations. <i>Journal of Neurophysiology</i> , 2000, 83, 3209-3216.	1.8	12
39	Comparison of group I non-reciprocal inhibition of individual motoneurons of a homogeneous population. <i>Brain Research</i> , 1985, 329, 379-383.	2.2	10
40	Cooperation of Muscle and Cutaneous Afferents in the Feedback of Contraction to Peroneal Motoneurons. <i>Journal of Neurophysiology</i> , 2000, 83, 3201-3208.	1.8	10
41	Positive Proprioceptive Feedback Elicited By Isometric Contractions of Ankle Flexors on Pretibial Motoneurons in Cats. <i>Journal of Neurophysiology</i> , 2002, 88, 2207-2214.	1.8	8
42	Flexible processing of sensory information induced by axo-axonic synapses on afferent fibers. <i>Journal of Physiology (Paris)</i> , 1999, 93, 369-377.	2.1	7
43	The dendritic location of the L-type current and its deactivation by the somatic AHP current both contribute to firing bistability in motoneurons. <i>Frontiers in Computational Neuroscience</i> , 2014, 8, 4.	2.1	7
44	Neuromimetic model of a neuronal filter. <i>Biological Cybernetics</i> , 1993, 70, 115-121.	1.3	6
45	Is there hope that transpinal direct current stimulation corrects motoneuron excitability and provides neuroprotection in amyotrophic lateral sclerosis?. <i>Physiological Reports</i> , 2021, 9, e14706.	1.7	5
46	Activation of Golgi tendon organs by asynchronous contractions of motor units in cat leg muscles. <i>Neuroscience Letters</i> , 1989, 103, 44-49.	2.1	3
47	Lack of summation of dynamic and static components in the responses of cat tendon organs. <i>Brain Research</i> , 1985, 337, 378-381.	2.2	2
48	Observations on static and dynamic responses of muscle stretch receptors in kittens. <i>Brain Research</i> , 1989, 478, 34-40.	2.2	2
49	Comments on the article by Jensen <i>et al</i> . (2020). <i>Journal of Physiology</i> , 2021, 599, 4231-4232.	2.9	2