

Charles J Heckman

List of Publications by Year in descending order

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167
papers

8,621
citations

43973

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58464

82
g-index

174
all docs

174
docs citations

174
times ranked

4284
citing authors

#	ARTICLE	IF	CITATIONS
1	A computational approach for generating continuous estimates of motor unit discharge rates and visualizing population discharge characteristics. <i>Journal of Neural Engineering</i> , 2022, 19, 016007.	1.8	13
2	Analyzing Modeled Torque Profiles to Understand Scale-Dependent Active Muscle Responses in the Hip Joint. <i>Biomimetics</i> , 2022, 7, 17.	1.5	4
3	Motor Unit Discharge Patterns in Response to Focal Tendon Vibration of the Lower Limb in Cats and Humans. <i>Frontiers in Integrative Neuroscience</i> , 2022, 16, 836757.	1.0	2
4	Computational Models of Motor Pools. , 2022, , 911-912.		0
5	Slowly activating outward membrane currents generate input-output sub-harmonic cross frequency coupling in neurons. <i>Journal of Theoretical Biology</i> , 2021, 509, 110509.	0.8	3
6	Time Course of Alterations in Adult Spinal Motoneuron Properties in the SOD1(G93A) Mouse Model of ALS. <i>ENeuro</i> , 2021, 8, ENEURO.0378-20.2021.	0.9	18
7	The Involvement of CaV1.3 Channels in Prolonged Root Reflexes and Its Potential as a Therapeutic Target in Spinal Cord Injury. <i>Frontiers in Neural Circuits</i> , 2021, 15, 642111.	1.4	8
8	Estimates of persistent inward currents in tibialis anterior motor units during standing ramped contraction tasks in humans. <i>Journal of Neurophysiology</i> , 2021, 126, 264-274.	0.9	12
9	Estimates of persistent inward currents are reduced in upper limb motor units of older adults. <i>Journal of Physiology</i> , 2021, 599, 4865-4882.	1.3	38
10	Impact of parameter selection on estimates of motoneuron excitability using paired motor unit analysis. <i>Journal of Neural Engineering</i> , 2020, 17, 016063.	1.8	44
11	Nonlinear Input-Output Functions of Motoneurons. <i>Physiology</i> , 2020, 35, 31-39.	1.6	87
12	It takes a circuit to develop a mature motoneuron. <i>Journal of Physiology</i> , 2020, 598, 5301-5302.	1.3	0
13	Differences in estimated persistent inward currents between ankle flexors and extensors in humans. <i>Journal of Neurophysiology</i> , 2020, 124, 525-535.	0.9	23
14	Inability to increase the neural drive to muscle is associated with task failure during submaximal contractions. <i>Journal of Neurophysiology</i> , 2020, 124, 1110-1121.	0.9	24
15	Serotonin affects our perception of fatigue when performing submaximal efforts “but is it all in our heads?”. <i>Journal of Physiology</i> , 2020, 598, 2533-2534.	1.3	0
16	Excessive Homeostatic Gain in Spinal Motoneurons in a Mouse Model of Amyotrophic Lateral Sclerosis. <i>Scientific Reports</i> , 2020, 10, 9049.	1.6	10
17	Motor Unit Discharge Variability Is Increased in Mild-To-Moderate Parkinson's Disease. <i>Frontiers in Neurology</i> , 2020, 11, 477.	1.1	10
18	Bursting interneurons in the deep dorsal horn develop increased excitability and sensitivity to serotonin after chronic spinal injury. <i>Journal of Neurophysiology</i> , 2020, 123, 1657-1670.	0.9	8

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19	Reply from Jacob Graves McPherson, Albert Chen, Michael D. Ellis, Jun Yao, C. J. Heckman and Julius P. A. Dewald. <i>Journal of Physiology</i> , 2019, 597, 4413-4414.	1.3	0
20	Hyperexcitability precedes motoneuron loss in the <i>Smn^{2B}</i> mouse model of spinal muscular atrophy. <i>Journal of Neurophysiology</i> , 2019, 122, 1297-1311.	0.9	13
21	Exogenous neuromodulation of spinal neurons induces beta-band coherence during self-sustained discharge of hind limb motor unit populations. <i>Journal of Applied Physiology</i> , 2019, 127, 1034-1041.	1.2	6
22	Experimentally Modifiable Parameters and Their Relation to the Tonic Vibration Reflex in Chronic Hemiparetic Stroke. , 2019, 2019, 2302-2306.		0
23	Changes in motor unit discharge patterns following strength training. <i>Journal of Physiology</i> , 2019, 597, 3509-3510.	1.3	5
24	Properties of Motor Units of Elbow and Ankle Muscles Decomposed Using High-Density Surface EMG. , 2019, 2019, 3874-3878.		14
25	Scaling of Motor Output, From Mouse to Humans. <i>Physiology</i> , 2019, 34, 5-13.	1.6	25
26	Locomotor-related V3 interneurons initiate and coordinate muscles spasms after spinal cord injury. <i>Journal of Neurophysiology</i> , 2019, 121, 1352-1367.	0.9	41
27	5-HT _{1D} receptors inhibit the monosynaptic stretch reflex by modulating C-fiber activity. <i>Journal of Neurophysiology</i> , 2019, 121, 1591-1608.	0.9	19
28	Cross-Frequency Coupling in Descending Motor Pathways: Theory and Simulation. <i>Frontiers in Systems Neuroscience</i> , 2019, 13, 86.	1.2	15
29	Progressive recruitment of contralesional cortico-reticulospinal pathways drives motor impairment post stroke. <i>Journal of Physiology</i> , 2018, 596, 1211-1225.	1.3	135
30	Robust and accurate decoding of motoneuron behaviour and prediction of the resulting force output. <i>Journal of Physiology</i> , 2018, 596, 2643-2659.	1.3	98
31	Dissecting the Functional Consequences of De Novo DNA Methylation Dynamics in Human Motor Neuron Differentiation and Physiology. <i>Cell Stem Cell</i> , 2018, 22, 559-574.e9.	5.2	53
32	Hypoexcitability precedes denervation in the large fast-contracting motor units in two unrelated mouse models of ALS. <i>ELife</i> , 2018, 7, .	2.8	111
33	Botulinum Toxin Conditioning Enhances Motor Axon Regeneration in Mouse and Human Preclinical Models. <i>Neurorehabilitation and Neural Repair</i> , 2018, 32, 735-745.	1.4	12
34	Neuromodulatory Inputs to Motoneurons Contribute to the Loss of Independent Joint Control in Chronic Moderate to Severe Hemiparetic Stroke. <i>Frontiers in Neurology</i> , 2018, 9, 470.	1.1	28
35	Altered Neuromodulatory Drive May Contribute to Exaggerated Tonic Vibration Reflexes in Chronic Hemiparetic Stroke. <i>Frontiers in Human Neuroscience</i> , 2018, 12, 131.	1.0	14
36	Acyloxyacyl hydrolase modulates pelvic pain severity. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2018, 314, R353-R365.	0.9	13

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37	Resistance training with instability is more effective than resistance training in improving spinal inhibitory mechanisms in Parkinson's disease. <i>Journal of Applied Physiology</i> , 2017, 122, 1-10.	1.2	23
38	Synaptic control of the shape of the motoneuron pool input-output function. <i>Journal of Neurophysiology</i> , 2017, 117, 1171-1184.	0.9	45
39	Reflex wind-up in early chronic spinal injury: plasticity of motor outputs. <i>Journal of Neurophysiology</i> , 2017, 117, 2065-2074.	0.9	11
40	Chronic electromyograms in treadmill running SOD1 mice reveal early changes in muscle activation. <i>Journal of Physiology</i> , 2017, 595, 5387-5400.	1.3	12
41	PICs in motoneurons do not scale with the size of the animal: a possible mechanism for faster speed of muscle contraction in smaller species. <i>Journal of Neurophysiology</i> , 2017, 118, 93-102.	0.9	23
42	The potential for understanding the synaptic organization of human motor commands via the firing patterns of motoneurons. <i>Journal of Neurophysiology</i> , 2017, 118, 520-531.	0.9	61
43	Constitutive activity of 5-HT _{2C} receptors is present after incomplete spinal cord injury but is not modified after chronic SSRI or baclofen treatment. <i>Journal of Neurophysiology</i> , 2017, 118, 2944-2952.	0.9	23
44	Hyperexcitability in synaptic and firing activities of spinal motoneurons in an adult mouse model of amyotrophic lateral sclerosis. <i>Neuroscience</i> , 2017, 362, 33-46.	1.1	30
45	The essential and downstream common proteins of amyotrophic lateral sclerosis: A protein-protein interaction network analysis. <i>PLoS ONE</i> , 2017, 12, e0172246.	1.1	14
46	Firing characteristics of deep dorsal horn neurons after acute spinal transection during administration of agonists for 5-HT _{1B/1D} and NMDA receptors. <i>Journal of Neurophysiology</i> , 2016, 116, 1644-1653.	0.9	9
47	Properties of the motor unit action potential shape in proximal and distal muscles of the upper limb in healthy and post-stroke individuals. , 2016, 2016, 335-339.		6
48	Data for spatial characterization of AC signal propagation over primary neuron dendrites. <i>Data in Brief</i> , 2016, 6, 341-344.	0.5	0
49	Absence of UCHL1 function leads to selective motor neuropathy. <i>Annals of Clinical and Translational Neurology</i> , 2016, 3, 331-345.	1.7	33
50	The transformation of synaptic to system plasticity in motor output from the sacral cord of the adult mouse. <i>Journal of Neurophysiology</i> , 2015, 114, 1987-2004.	0.9	8
51	Intrinsic excitability of human motoneurons in biceps brachii versus triceps brachii. <i>Journal of Neurophysiology</i> , 2015, 113, 3692-3699.	0.9	57
52	Comparison of dendritic calcium transients in juvenile wild type and SOD1G93A mouse lumbar motoneurons. <i>Frontiers in Cellular Neuroscience</i> , 2015, 9, 139.	1.8	10
53	The tight relationship between asymmetric signaling and locational excitability in motoneuron dendrites. <i>Communicative and Integrative Biology</i> , 2015, 8, e1110657.	0.6	2
54	Contribution of intrinsic motoneuron properties to discharge hysteresis and its estimation based on paired motor unit recordings: a simulation study. <i>Journal of Neurophysiology</i> , 2015, 114, 184-198.	0.9	50

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55	Foundational dendritic processing that is independent of the cell type-specific structure in model primary neurons. <i>Neuroscience Letters</i> , 2015, 609, 203-209.	1.0	4
56	An action potential-driven model of soleus muscle activation dynamics for locomotor-like movements. <i>Journal of Neural Engineering</i> , 2015, 12, 046025.	1.8	14
57	Asymmetry in Signal Propagation between the Soma and Dendrites Plays a Key Role in Determining Dendritic Excitability in Motoneurons. <i>PLoS ONE</i> , 2014, 9, e95454.	1.1	14
58	Gain control mechanisms in spinal motoneurons. <i>Frontiers in Neural Circuits</i> , 2014, 8, 81.	1.4	45
59	Neuromodulation impact on nonlinear firing behavior of a reduced model motoneuron with the active dendrite. <i>Frontiers in Computational Neuroscience</i> , 2014, 8, 110.	1.2	3
60	High-density surface EMG decomposition allows for recording of motor unit discharge from proximal and distal flexion synergy muscles simultaneously in individuals with stroke. , 2014, 2014, 5340-4.		15
61	Effect of fluoxetine on disease progression in a mouse model of ALS. <i>Journal of Neurophysiology</i> , 2014, 111, 2164-2176.	0.9	19
62	Potential involvement of intracellular pH in a mouse model of amyotrophic lateral sclerosis. <i>Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration</i> , 2014, 15, 151-153.	1.1	9
63	Disturbances of motor unit rate modulation are prevalent in muscles of spastic-paretic stroke survivors. <i>Journal of Neurophysiology</i> , 2014, 111, 2017-2028.	0.9	46
64	Soma size and Ca ^v 1.3 channel expression in vulnerable and resistant motoneuron populations of the SOD1 ^{G93A} mouse model of ALS. <i>Physiological Reports</i> , 2014, 2, e121113.	0.7	15
65	Adult spinal motoneurons are not hyperexcitable in a mouse model of inherited amyotrophic lateral sclerosis. <i>Journal of Physiology</i> , 2014, 592, 1687-1703.	1.3	128
66	Characterization of motor units in behaving adult mice shows a wide primary range. <i>Journal of Neurophysiology</i> , 2014, 112, 543-551.	0.9	16
67	Changes in motoneuron afterhyperpolarization duration in stroke survivors. <i>Journal of Neurophysiology</i> , 2014, 112, 1447-1456.	0.9	16
68	Serotonin Affects Movement Gain Control in the Spinal Cord. <i>Journal of Neuroscience</i> , 2014, 34, 12690-12700.	1.7	98
69	Reconfiguration of the Electrical Properties of Motoneurons to Match the Diverse Demands of Motor Behavior. <i>Advances in Experimental Medicine and Biology</i> , 2014, 826, 33-40.	0.8	6
70	Computational Models of Motor Pools. , 2014, , 1-2.		0
71	Design and evaluation of a chronic EMG multichannel detection system for long-term recordings of hindlimb muscles in behaving mice. <i>Journal of Electromyography and Kinesiology</i> , 2013, 23, 531-539.	0.7	32
72	Motoneuron Intrinsic Properties, but Not Their Receptive Fields, Recover in Chronic Spinal Injury. <i>Journal of Neuroscience</i> , 2013, 33, 18806-18813.	1.7	22

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73	eGFP Expression under <i>UCHL1</i> Promoter Genetically Labels Corticospinal Motor Neurons and a Subpopulation of Degeneration-Resistant Spinal Motor Neurons in an ALS Mouse Model. <i>Journal of Neuroscience</i> , 2013, 33, 7890-7904.	1.7	69
74	Motor Neuron Rescue in Spinal Muscular Atrophy Mice Demonstrates That Sensory-Motor Defects Are a Consequence, Not a Cause, of Motor Neuron Dysfunction. <i>Journal of Neuroscience</i> , 2012, 32, 3818-3829.	1.7	168
75	Effect of prolonged riluzole exposure on cultured motoneurons in a mouse model of ALS. <i>Journal of Neurophysiology</i> , 2012, 107, 484-492.	0.9	30
76	Using spike-triggered averaging to characterize motor unit twitch vectors in the first dorsal interosseous. , 2012, 2012, 3604-7.		1
77	Pushâ€“Pull Control of Motor Output. <i>Journal of Neuroscience</i> , 2012, 32, 4592-4599.	1.7	31
78	Simultaneous Intracellular Recording of a Lumbar Motoneuron and the Force Produced by its Motor Unit in the Adult Mouse <i>in vivo</i> . <i>Journal of Visualized Experiments</i> , 2012, , e4312.	0.2	11
79	Contribution of intrinsic properties and synaptic inputs to motoneuron discharge patterns: a simulation study. <i>Journal of Neurophysiology</i> , 2012, 107, 808-823.	0.9	76
80	NMDA induces persistent inward and outward currents that cause rhythmic bursting in adult rodent motoneurons. <i>Journal of Neurophysiology</i> , 2012, 108, 2991-2998.	0.9	24
81	Synchronous and asynchronous electrically evoked motor activities during wind-up stimulation are differentially modulated following an acute spinal transection. <i>Journal of Neurophysiology</i> , 2012, 108, 3322-3332.	0.9	5
82	Differential modulation of crossed and uncrossed reflex pathways by clonidine in adult cats following complete spinal cord injury. <i>Journal of Physiology</i> , 2012, 590, 973-989.	1.3	13
83	Motor Unit. , 2012, 2, 2629-2682.		317
84	O-Antigen Modulates Infection-Induced Pain States. <i>PLoS ONE</i> , 2012, 7, e41273.	1.1	43
85	Cutaneous inputs from the back abolish locomotor-like activity and reduce spastic-like activity in the adult cat following complete spinal cord injury. <i>Experimental Neurology</i> , 2012, 235, 588-598.	2.0	14
86	Stronger is not always better: Could a bodybuilding dietary supplement lead to ALS?. <i>Experimental Neurology</i> , 2011, 228, 5-8.	2.0	11
87	Motoneuron Excitability and Muscle Spasms Are Regulated by 5-HT _{2B} and 5-HT _{2C} Receptor Activity. <i>Journal of Neurophysiology</i> , 2011, 105, 731-748.	0.9	130
88	Altered postnatal maturation of electrical properties in spinal motoneurons in a mouse model of amyotrophic lateral sclerosis. <i>Journal of Physiology</i> , 2011, 589, 2245-2260.	1.3	120
89	Altered activation patterns by triceps surae stretch reflex pathways in acute and chronic spinal cord injury. <i>Journal of Neurophysiology</i> , 2011, 106, 1669-1678.	0.9	26
90	Extra Forces Evoked during Electrical Stimulation of the Muscle or Its Nerve Are Generated and Modulated by a Length-Dependent Intrinsic Property of Muscle in Humans and Cats. <i>Journal of Neuroscience</i> , 2011, 31, 5579-5588.	1.7	38

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91	Adult Mouse Motor Units Develop Almost All of Their Force in the Subprimary Range: A New All-or-None Strategy for Force Recruitment?. <i>Journal of Neuroscience</i> , 2011, 31, 15188-15194.	1.7	31
92	Characterization of the tendon vibration reflex response in hemi-spastic stroke individuals. , 2011, 2011, 2053-6.		5
93	Recovery of motoneuron and locomotor function after spinal cord injury depends on constitutive activity in 5-HT _{2C} receptors. <i>Nature Medicine</i> , 2010, 16, 694-700.	15.2	353
94	Evidence from Computer Simulations for Alterations in the Membrane Biophysical Properties and Dendritic Processing of Synaptic Inputs in Mutant Superoxide Dismutase-1 Motoneurons. <i>Journal of Neuroscience</i> , 2010, 30, 5544-5558.	1.7	44
95	Interactions between focused synaptic inputs and diffuse neuromodulation in the spinal cord. <i>Annals of the New York Academy of Sciences</i> , 2010, 1198, 35-41.	1.8	24
96	Persistent inward currents in spinal motoneurons: Important for normal function but potentially harmful after spinal cord injury and in amyotrophic lateral sclerosis. <i>Clinical Neurophysiology</i> , 2010, 121, 1669-1679.	0.7	70
97	Origins of Abnormal Excitability in Biceps Brachii Motoneurons of Spastic-Paretic Stroke Survivors. <i>Journal of Neurophysiology</i> , 2009, 102, 2026-2038.	0.9	101
98	Fast Kinetics, High-Frequency Oscillations, and Subprimary Firing Range in Adult Mouse Spinal Motoneurons. <i>Journal of Neuroscience</i> , 2009, 29, 11246-11256.	1.7	78
99	Progressive Changes in Synaptic Inputs to Motoneurons in Adult Sacral Spinal Cord of a Mouse Model of Amyotrophic Lateral Sclerosis. <i>Journal of Neuroscience</i> , 2009, 29, 15031-15038.	1.7	69
100	Motoneuron excitability: The importance of neuromodulatory inputs. <i>Clinical Neurophysiology</i> , 2009, 120, 2040-2054.	0.7	185
101	Active properties of motoneurone dendrites: diffuse descending neuromodulation, focused local inhibition. <i>Journal of Physiology</i> , 2008, 586, 1225-1231.	1.3	111
102	Movement-related receptive fields of spinal motoneurons with active dendrites. <i>Journal of Physiology</i> , 2008, 586, 1581-1593.	1.3	35
103	Persistent Inward Currents in Spinal Motoneurons and Their Influence on Human Motoneuron Firing Patterns. <i>Neuroscientist</i> , 2008, 14, 264-275.	2.6	224
104	Evidence for Increased Activation of Persistent Inward Currents in Individuals With Chronic Hemiparetic Stroke. <i>Journal of Neurophysiology</i> , 2008, 100, 3236-3243.	0.9	72
105	Summation of Excitatory and Inhibitory Synaptic Inputs by Motoneurons With Highly Active Dendrites. <i>Journal of Neurophysiology</i> , 2008, 99, 1643-1652.	0.9	35
106	Spinal Mechanisms for Control of Muscle Length and Force. , 2008, , 443-478.		0
107	Expression of L-type calcium channel $\hat{1}\pm 1.2$ and $\hat{1}\pm 1.3$ subunits on rat sacral motoneurons following chronic spinal cord injury. <i>Neuroscience</i> , 2007, 145, 751-763.	1.1	22
108	Persistent inward currents in rat ventral horn neurones. <i>Journal of Physiology</i> , 2007, 580, 507-522.	1.3	66

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109	Intrinsic electrical properties of spinal motoneurons vary with joint angle. <i>Nature Neuroscience</i> , 2007, 10, 363-369.	7.1	114
110	Essential role of the persistent sodium current in spike initiation during slowly rising inputs in mouse spinal neurones. <i>Journal of Physiology</i> , 2006, 574, 819-834.	1.3	125
111	In vitro sacral cord preparation and motoneuron recording from adult mice. <i>Journal of Neuroscience Methods</i> , 2006, 156, 31-36.	1.3	29
112	Measuring dendritic distribution of membrane proteins. <i>Journal of Neuroscience Methods</i> , 2006, 156, 257-266.	1.3	37
113	Effects of exercise training on \hat{I}_{\pm} -motoneurons. <i>Journal of Applied Physiology</i> , 2006, 101, 1228-1236.	1.2	81
114	The calcium binding proteins calbindin, parvalbumin, and calretinin have specific patterns of expression in the gray matter of cat spinal cord. <i>Journal of Neurocytology</i> , 2005, 34, 369-385.	1.6	44
115	Increased persistent Na ⁺ current and its effect on excitability in motoneurons cultured from mutant SOD1 mice. <i>Journal of Physiology</i> , 2005, 563, 843-854.	1.3	200
116	Persistent inward currents in motoneuron dendrites: Implications for motor output. <i>Muscle and Nerve</i> , 2005, 31, 135-156.	1.0	347
117	Systematic variation in effects of serotonin and norepinephrine on repetitive firing properties of ventral horn neurons. <i>Neuroscience</i> , 2005, 134, 803-815.	1.1	21
118	Decerebrate mammalian preparations: unalleviated or fully alleviated pain? A review and opinion. <i>Contemporary Topics in Laboratory Animal Science</i> , 2005, 44, 34-6.	0.2	23
119	Hyperexcitability of Cultured Spinal Motoneurons From Presymptomatic ALS Mice. <i>Journal of Neurophysiology</i> , 2004, 91, 571-575.	0.9	168
120	Synaptic integration in motoneurons with hyper-excitable dendrites. <i>Canadian Journal of Physiology and Pharmacology</i> , 2004, 82, 549-555.	0.7	15
121	Physiology of the motor neuron and the motor unit. <i>Handbook of Clinical Neurophysiology</i> , 2004, 4, 119-147.	0.0	42
122	Changes in voluntary torque and electromyographic activity following oral baclofen. <i>Muscle and Nerve</i> , 2004, 30, 784-795.	1.0	11
123	Hill muscle model errors during movement are greatest within the physiologically relevant range of motor unit firing rates. <i>Journal of Biomechanics</i> , 2003, 36, 211-218.	0.9	91
124	Hyperexcitable dendrites in motoneurons and their neuromodulatory control during motor behavior. <i>Trends in Neurosciences</i> , 2003, 26, 688-695.	4.2	210
125	Active Conductances in Motoneuron Dendrites Enhance Movement Capabilities. <i>Exercise and Sport Sciences Reviews</i> , 2003, 31, 96-101.	1.6	15
126	Summation of Forces From Multiple Motor Units in the Cat Soleus Muscle. <i>Journal of Neurophysiology</i> , 2003, 89, 738-744.	0.9	31

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127	Influence of Active Dendritic Currents on Input-Output Processing in Spinal Motoneurons In Vivo. Journal of Neurophysiology, 2003, 89, 27-39.	0.9	78
128	Active Dendritic Integration of Inhibitory Synaptic Inputs In Vivo. Journal of Neurophysiology, 2003, 90, 3617-3624.	0.9	81
129	Relative Strengths and Distributions of Different Sources of Synaptic Input to the Motoneurone Pool. Advances in Experimental Medicine and Biology, 2002, 508, 207-212.	0.8	30
130	Spinal Interneurons That Receive Input From Muscle Afferents Are Differentially Modulated by Dorsolateral Descending Systems. Journal of Neurophysiology, 2001, 85, 1005-1008.	0.9	18
131	Essential Role of a Fast Persistent Inward Current in Action Potential Initiation and Control of Rhythmic Firing. Journal of Neurophysiology, 2001, 85, 472-475.	0.9	124
132	Whole Muscle Length-Tension Properties Vary With Recruitment and Rate Modulation in Areflexive Cat Soleus. Journal of Neurophysiology, 2001, 85, 1033-1038.	0.9	15
133	Recruitment of Cat Motoneurons in the Absence of Homonymous Afferent Feedback. Journal of Neurophysiology, 2001, 86, 616-628.	0.9	13
134	Adjustable Amplification of Synaptic Input in the Dendrites of Spinal Motoneurons <i>In Vivo</i> . Journal of Neuroscience, 2000, 20, 6734-6740.	1.7	240
135	Paradoxical Effect of QX-314 on Persistent Inward Currents and Bistable Behavior in Spinal Motoneurons In Vivo. Journal of Neurophysiology, 1999, 82, 2518-2527.	0.9	65
136	Enhancement of Bistability in Spinal Motoneurons In Vivo by the Noradrenergic α_1 Agonist Methoxamine. Journal of Neurophysiology, 1999, 81, 2164-2174.	0.9	130
137	The role of voltage-sensitive dendritic conductances in generating bistable firing patterns in motoneurons. Journal of Physiology (Paris), 1999, 93, 97-100.	2.1	13
138	Chapter 4 Synaptic Integration in Bistable Motoneurons. Progress in Brain Research, 1999, 123, 49-56.	0.9	19
139	Bistability in Spinal Motoneurons In Vivo: Systematic Variations in Persistent Inward Currents. Journal of Neurophysiology, 1998, 80, 583-593.	0.9	289
140	Bistability in Spinal Motoneurons In Vivo: Systematic Variations in Rhythmic Firing Patterns. Journal of Neurophysiology, 1998, 80, 572-582.	0.9	226
141	Decorrelating Actions of Renshaw Interneurons on the Firing of Spinal Motoneurons Within a Motor Nucleus: A Simulation Study. Journal of Neurophysiology, 1998, 80, 309-323.	0.9	61
142	Active Dendritic Conductances Influence the Relations Between Synaptic Input and the Current-Voltage Relation of Adult Spinal Motoneurons. , 1998, , 217-219.		0
143	Doublet potentiation during eccentric and concentric contractions of cat soleus muscle. Journal of Applied Physiology, 1997, 82, 1219-1228.	1.2	49
144	Force From Cat Soleus Muscle During Imposed Locomotor-Like Movements: Experimental Data Versus Hill-Type Model Predictions. Journal of Neurophysiology, 1997, 77, 1538-1552.	0.9	76

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145	Restoration of extensor excitability in the acute spinal cat by the 5-HT ₂ agonist DOI. <i>Journal of Neurophysiology</i> , 1996, 75, 620-628.	0.9	67
146	Influence of voltage-sensitive dendritic conductances on bistable firing and effective synaptic current in cat spinal motoneurons in vivo. <i>Journal of Neurophysiology</i> , 1996, 76, 2107-2110.	0.9	143
147	Motor unit recruitment patterns during reflex compensation of muscle yield investigated by computer simulations. <i>Biological Cybernetics</i> , 1996, 75, 211-217.	0.6	2
148	Effect of reversible dorsal cold block on the persistence of inhibition generated by spinal reflexes. <i>Experimental Brain Research</i> , 1995, 107, 205-14.	0.7	3
149	5-HT _{1B/1D} agonist CGS-12066B attenuates clasp knife reflex in the cat. <i>Journal of Neurophysiology</i> , 1995, 74, 453-456.	0.9	8
150	Computer simulations of the effects of different synaptic input systems on the steady-state input-output structure of the motoneuron pool. <i>Journal of Neurophysiology</i> , 1994, 71, 1727-1739.	0.9	57
151	Reduction in postsynaptic inhibition during maintained electrical stimulation of different nerves in the cat hindlimb. <i>Journal of Neurophysiology</i> , 1994, 71, 2281-2293.	0.9	19
152	Alterations in synaptic input to motoneurons during partial spinal cord injury. <i>Medicine and Science in Sports and Exercise</i> , 1994, 26, 1480-1490.	0.2	26
153	How different afferent inputs control motoneuron discharge and the output of the motoneuron pool. <i>Current Opinion in Neurobiology</i> , 1993, 3, 1028-1034.	2.0	48
154	Computer simulations of motoneuron firing rate modulation. <i>Journal of Neurophysiology</i> , 1993, 69, 1005-1008.	0.9	57
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