Sherif M Elbasiouny

List of Publications by Year
in descending order

32 papers	920 citations	687363 13 h-index	526287 27 g-index
33 all docs	33 docs citations	33 times ranked	829 citing authors

#	Article	IF	Citations
1	Morphologically Detailed Cellular and Pool Motoneuron Models. , 2022, , 2091-2096.		0
2	Adaptive Neural Decoder for Prosthetic Hand Control. Frontiers in Neuroscience, 2021, 15, 590775.	2.8	1
3	Estimating the effects of slicing on the electrophysiological properties of spinal motoneurons under normal and disease conditions. Journal of Neurophysiology, 2021, 125, 1450-1467.	1.8	3
4	In-silico development and assessment of a Kalman filter motor decoder for prosthetic hand control. Computers in Biology and Medicine, 2021, 132, 104353.	7.0	3
5	A Classification Approach to Recognize the Firing of Spinal Motoneurons in Amyotrophic Lateral Sclerosis. , 2020, 2020, 3680-3683.		0
6	Dendritic distributions of L-type Ca²⁺ and SK_L channels in spinal motoneurons: a simulation study. Journal of Neurophysiology, 2020, 124, 1285-1307.	1.8	3
7	Meta-analysis of biological variablesâ€™ impact on spinal motoneuron electrophysiology data. Journal of Neurophysiology, 2020, 123, 1380-1391.	1.8	10
8	Effects of Neuronic Shutter Observed in the EEG Alpha Rhythm. ENeuro, 2020, 7, ENEURO.0171-20.2020.	1.9	11
9	Morphologically Detailed Cellular and Pool Motoneuron Models. , 2020, , 1-6.		0
10	The Mechanistic Basis for Successful Spinal Cord Stimulation to Generate Steady Motor Outputs. Frontiers in Cellular Neuroscience, 2019, 13, 359.	3.7	4
11	The vulnerability of spinal motoneurons and soma size plasticity in a mouse model of amyotrophic lateral sclerosis. Journal of Physiology, 2018, 596, 1723-1745.	2.9	81
12	Modulation of SK channels regulates locomotor alternating bursting activity in the functionally-mature spinal cord. Channels, 2018, 12, 9-14.	2.8	5
13	The effects of model composition design choices on high-fidelity simulations of motoneuron recruitment and firing behaviors. Journal of Neural Engineering, 2018, 15, 036024.	3.5	12
14	Automated Cell-Type Classification and Death-Detection of Spinal Motoneurons. , 2018, , .		0
15	SK channel inhibition mediates the initiation and amplitude modulation of synchronized burst firing in the spinal cord. Journal of Neurophysiology, 2017, 118, 161-175.	1.8	13
16	Cross-Disciplinary Medical Advances with Neuroengineering: Challenges Spur Development of Unique Rehabilitative and Therapeutic Interventions. IEEE Pulse, 2017, 8, 4-7.	0.3	1
17	Mixed-mode oscillations in pyramidal neurons under antiepileptic drug conditions. PLoS ONE, 2017, 12, e0178244.	2.5	12
18	Experimental Design and Data Analysis Issues Contribute to Inconsistent Results of C-Bouton Changes in Amyotrophic Lateral Sclerosis. ENeuro, 2017, 4, ENEURO.0281-16.2016.	1.9	20

#	Article	IF	Citations
19	Simulation of dendritic L-type ca channels' warm-up phenomenon in spinal motoneurons. , 2016, , .		0
20	The transformation of synaptic to system plasticity in motor output from the sacral cord of the adult mouse. Journal of Neurophysiology, 2015, 114, 1987-2004.	1.8	8
21	Development of modified cable models to simulate accurate neuronal active behaviors. Journal of Applied Physiology, 2014, 117, 1243-1261.	2.5	19
22	Adult spinal motoneurones are not hyperexcitable in a mouse model of inherited amyotrophic lateral sclerosis. Journal of Physiology, 2014, 592, 1687-1703.	2.9	128
23	Contribution of intrinsic properties and synaptic inputs to motoneuron discharge patterns: a simulation study. Journal of Neurophysiology, 2012, 107, 808-823.	1.8	76
24	NMDA induces persistent inward and outward currents that cause rhythmic bursting in adult rodent motoneurons. Journal of Neurophysiology, 2012, 108, 2991-2998.	1.8	24
25	The Effect of Training on Motoneuron Survival in Amyotrophic Lateral Sclerosis: Which Motoneuron Type is Saved?. Frontiers in Physiology, 2011, 2, 18.	2.8	3
26	Evidence from Computer Simulations for Alterations in the Membrane Biophysical Properties and Dendritic Processing of Synaptic Inputs in Mutant Superoxide Dismutase-1 Motoneurons. Journal of Neuroscience, 2010, 30, 5544-5558.	3.6	44
27	Management of Spasticity After Spinal Cord Injury: Current Techniques and Future Directions. Neurorehabilitation and Neural Repair, 2010, 24, 23-33.	2.9	169
28	Persistent inward currents in spinal motoneurons: Important for normal function but potentially harmful after spinal cord injury and in amyotrophic lateral sclerosis. Clinical Neurophysiology, 2010, 121, 1669-1679.	1.5	70
29	Suppressing the excitability of spinal motoneurons by extracellularly applied electrical fields: insights from computer simulations. Journal of Applied Physiology, 2007, 103, 1824-1836.	2.5	27
30	Modulation of motoneuronal firing behavior after spinal cord injury using intraspinal microstimulation current pulses: a modeling study. Journal of Applied Physiology, 2007, 103, 276-286.	2.5	24
31	Simulation of Ca2+persistent inward currents in spinal motoneurones: mode of activation and integration of synaptic inputs. Journal of Physiology, 2006, 570, 355-374.	2.9	67
32	Simulation of Dendritic CaV1.3 Channels in Cat Lumbar Motoneurons: Spatial Distribution. Journal of Neurophysiology, 2005, 94, 3961-3974.	1.8	82