

# Sherif M Elbasiouny

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Management of Spasticity After Spinal Cord Injury: Current Techniques and Future Directions. <i>Neurorehabilitation and Neural Repair</i> , 2010, 24, 23-33.	2.9	169
2	Adult spinal motoneurons are not hyperexcitable in a mouse model of inherited amyotrophic lateral sclerosis. <i>Journal of Physiology</i> , 2014, 592, 1687-1703.	2.9	128
3	Simulation of Dendritic CaV1.3 Channels in Cat Lumbar Motoneurons: Spatial Distribution. <i>Journal of Neurophysiology</i> , 2005, 94, 3961-3974.	1.8	82
4	The vulnerability of spinal motoneurons and soma size plasticity in a mouse model of amyotrophic lateral sclerosis. <i>Journal of Physiology</i> , 2018, 596, 1723-1745.	2.9	81
5	Contribution of intrinsic properties and synaptic inputs to motoneuron discharge patterns: a simulation study. <i>Journal of Neurophysiology</i> , 2012, 107, 808-823.	1.8	76
6	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.	1.5	70
7	Simulation of Ca <sup>2+</sup> -persistent inward currents in spinal motoneurons: mode of activation and integration of synaptic inputs. <i>Journal of Physiology</i> , 2006, 570, 355-374.	2.9	67
8	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.	3.6	44
9	Suppressing the excitability of spinal motoneurons by extracellularly applied electrical fields: insights from computer simulations. <i>Journal of Applied Physiology</i> , 2007, 103, 1824-1836.	2.5	27
10	Modulation of motoneuronal firing behavior after spinal cord injury using intraspinal microstimulation current pulses: a modeling study. <i>Journal of Applied Physiology</i> , 2007, 103, 276-286.	2.5	24
11	NMDA induces persistent inward and outward currents that cause rhythmic bursting in adult rodent motoneurons. <i>Journal of Neurophysiology</i> , 2012, 108, 2991-2998.	1.8	24
12	Experimental Design and Data Analysis Issues Contribute to Inconsistent Results of C-Bouton Changes in Amyotrophic Lateral Sclerosis. <i>ENeuro</i> , 2017, 4, ENEURO.0281-16.2016.	1.9	20
13	Development of modified cable models to simulate accurate neuronal active behaviors. <i>Journal of Applied Physiology</i> , 2014, 117, 1243-1261.	2.5	19
14	SK channel inhibition mediates the initiation and amplitude modulation of synchronized burst firing in the spinal cord. <i>Journal of Neurophysiology</i> , 2017, 118, 161-175.	1.8	13
15	The effects of model composition design choices on high-fidelity simulations of motoneuron recruitment and firing behaviors. <i>Journal of Neural Engineering</i> , 2018, 15, 036024.	3.5	12
16	Mixed-mode oscillations in pyramidal neurons under antiepileptic drug conditions. <i>PLoS ONE</i> , 2017, 12, e0178244.	2.5	12
17	Effects of Neuronic Shutter Observed in the EEG Alpha Rhythm. <i>ENeuro</i> , 2020, 7, ENEURO.0171-20.2020.	1.9	11
18	Meta-analysis of biological variables' impact on spinal motoneuron electrophysiology data. <i>Journal of Neurophysiology</i> , 2020, 123, 1380-1391.	1.8	10

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19	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.	1.8	8
20	Modulation of SK channels regulates locomotor alternating bursting activity in the functionally-mature spinal cord. <i>Channels</i> , 2018, 12, 9-14.	2.8	5
21	The Mechanistic Basis for Successful Spinal Cord Stimulation to Generate Steady Motor Outputs. <i>Frontiers in Cellular Neuroscience</i> , 2019, 13, 359.	3.7	4
22	The Effect of Training on Motoneuron Survival in Amyotrophic Lateral Sclerosis: Which Motoneuron Type is Saved?. <i>Frontiers in Physiology</i> , 2011, 2, 18.	2.8	3
23	Dendritic distributions of L-type Ca <sup>2+</sup> and SK <sub>L</sub> channels in spinal motoneurons: a simulation study. <i>Journal of Neurophysiology</i> , 2020, 124, 1285-1307.	1.8	3
24	Estimating the effects of slicing on the electrophysiological properties of spinal motoneurons under normal and disease conditions. <i>Journal of Neurophysiology</i> , 2021, 125, 1450-1467.	1.8	3
25	In-silico development and assessment of a Kalman filter motor decoder for prosthetic hand control. <i>Computers in Biology and Medicine</i> , 2021, 132, 104353.	7.0	3
26	Cross-Disciplinary Medical Advances with Neuroengineering: Challenges Spur Development of Unique Rehabilitative and Therapeutic Interventions. <i>IEEE Pulse</i> , 2017, 8, 4-7.	0.3	1
27	Adaptive Neural Decoder for Prosthetic Hand Control. <i>Frontiers in Neuroscience</i> , 2021, 15, 590775.	2.8	1
28	Simulation of dendritic L-type ca channels' warm-up phenomenon in spinal motoneurons. , 2016, ,		0
29	Automated Cell-Type Classification and Death-Detection of Spinal Motoneurons. , 2018, ,		0
30	A Classification Approach to Recognize the Firing of Spinal Motoneurons in Amyotrophic Lateral Sclerosis. , 2020, 2020, 3680-3683.		0
31	Morphologically Detailed Cellular and Pool Motoneuron Models. , 2020, , 1-6.		0
32	Morphologically Detailed Cellular and Pool Motoneuron Models. , 2022, , 2091-2096.		0