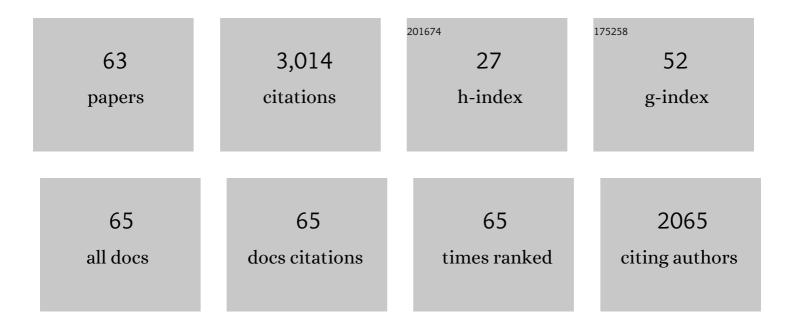
## Dimitry G Sayenko

List of Publications by Year in descending order

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DIMITON C. SAVENKO

#	Article	IF	CITATIONS
1	Neuromodulation of lumbosacral spinal networks enables independent stepping after complete paraplegia. Nature Medicine, 2018, 24, 1677-1682.	30.7	416
2	Noninvasive Reactivation of Motor Descending Control after Paralysis. Journal of Neurotrauma, 2015, 32, 1968-1980.	3.4	236
3	Enabling Task-Specific Volitional Motor Functions via Spinal Cord Neuromodulation in a Human With Paraplegia. Mayo Clinic Proceedings, 2017, 92, 544-554.	3.0	189
4	Transcutaneous electrical spinal-cord stimulation in humans. Annals of Physical and Rehabilitation Medicine, 2015, 58, 225-231.	2.3	176
5	Self-Assisted Standing Enabled by Non-Invasive Spinal Stimulation after Spinal Cord Injury. Journal of Neurotrauma, 2019, 36, 1435-1450.	3.4	143
6	Neuromodulation of evoked muscle potentials induced by epidural spinal-cord stimulation in paralyzed individuals. Journal of Neurophysiology, 2014, 111, 1088-1099.	1.8	136
7	Weight Bearing Over-ground Stepping in an Exoskeleton with Non-invasive Spinal Cord Neuromodulation after Motor Complete Paraplegia. Frontiers in Neuroscience, 2017, 11, 333.	2.8	131
8	Dry Immersion as a Ground-Based Model of Microgravity Physiological Effects. Frontiers in Physiology, 2019, 10, 284.	2.8	107
9	Spinal segment-specific transcutaneous stimulation differentially shapes activation pattern among motor pools in humans. Journal of Applied Physiology, 2015, 118, 1364-1374.	2.5	99
10	Trunk Stability Enabled by Noninvasive Spinal Electrical Stimulation after Spinal Cord Injury. Journal of Neurotrauma, 2018, 35, 2540-2553.	3.4	96
11	Acute effects of whole body vibration during passive standing on soleus H-reflex in subjects with and without spinal cord injury. Neuroscience Letters, 2010, 482, 66-70.	2.1	76
12	Positive effect of balance training with visual feedback on standing balance abilities in people with incomplete spinal cord injury. Spinal Cord, 2010, 48, 886-893.	1.9	74
13	Reducing muscle fatigue during transcutaneous neuromuscular electrical stimulation by spatially and sequentially distributing electrical stimulation sources. European Journal of Applied Physiology, 2014, 114, 793-804.	2.5	72
14	An Autonomic Neuroprosthesis: Noninvasive Electrical Spinal Cord Stimulation Restores Autonomic Cardiovascular Function in Individuals with Spinal Cord Injury. Journal of Neurotrauma, 2018, 35, 446-451.	3.4	70
15	Role of support afferentation in control of the tonic muscle activity. Acta Astronautica, 2007, 60, 285-294.	3.2	67
16	Effects of paired transcutaneous electrical stimulation delivered at single and dual sites over lumbosacral spinal cord. Neuroscience Letters, 2015, 609, 229-234.	2.1	57
17	Electrophysiological Guidance of Epidural Electrode Array Implantation over the Human Lumbosacral Spinal Cord to Enable Motor Function after Chronic Paralysis. Journal of Neurotrauma, 2019, 36, 1451-1460.	3.4	56
18	Integration of sensory, spinal, and volitional descending inputs in regulation of human locomotion. Journal of Neurophysiology, 2016, 116, 98-105.	1.8	44

DIMITRY G SAYENKO

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19	Differential effects of plantar cutaneous afferent excitation on soleus stretch and Hâ€reflex. Muscle and Nerve, 2009, 39, 761-769.	2.2	42
20	Effects of balance training with visual feedback during mechanically unperturbed standing on postural corrective responses. Gait and Posture, 2012, 35, 339-344.	1.4	40
21	What triggers the continuous muscle activity during upright standing?. Gait and Posture, 2013, 37, 72-77.	1.4	40
22	Effects of strength training, using a gravity-independent exercise system, performed during 110Âdays of simulated space station confinement. European Journal of Applied Physiology, 2003, 90, 44-49.	2.5	39
23	On the reflex mechanisms of cervical transcutaneous spinal cord stimulation in human subjects. Journal of Neurophysiology, 2019, 121, 1672-1679.	1.8	39
24	Ankle muscle co-contractions during quiet standing are associated with decreased postural steadiness in the elderly. Gait and Posture, 2017, 55, 31-36.	1.4	36
25	Feed-Forwardness of Spinal Networks in Posture and Locomotion. Neuroscientist, 2017, 23, 441-453.	3.5	33
26	Preferential activation of spinal sensorimotor networks via lateralized transcutaneous spinal stimulation in neurologically intact humans. Journal of Neurophysiology, 2019, 122, 2111-2118.	1.8	33
27	Locomotor step training with body weight support improves respiratory motor function in in individuals with chronic spinal cord injury. Respiratory Physiology and Neurobiology, 2013, 189, 491-497.	1.6	31
28	The relationship between maximum tolerance and motor activation during transcutaneous spinal stimulation is unaffected by the carrier frequency or vibration. Physiological Reports, 2020, 8, e14397.	1.7	29
29	Complications of epidural spinal stimulation: lessons from the past and alternatives for the future. Spinal Cord, 2020, 58, 1049-1059.	1.9	28
30	Method to Reduce Muscle Fatigue During Transcutaneous Neuromuscular Electrical Stimulation in Major Knee and Ankle Muscle Groups. Neurorehabilitation and Neural Repair, 2015, 29, 722-733.	2.9	25
31	Impact of long-term epidural electrical stimulation enabled task-specific training on secondary conditions of chronic paraplegia in two humans. Journal of Spinal Cord Medicine, 2021, 44, 800-805.	1.4	24
32	Selectivity and excitability of upper-limb muscle activation during cervical transcutaneous spinal cord stimulation in humans. Journal of Applied Physiology, 2021, 131, 746-759.	2.5	23
33	Electrical Spinal Stimulation, and Imagining of Lower Limb Movements to Modulate Brain-Spinal Connectomes That Control Locomotor-Like Behavior. Frontiers in Physiology, 2018, 9, 1196.	2.8	21
34	Epidural Electrical Stimulation of the Lumbosacral Spinal Cord Improves Trunk Stability During Seated Reaching in Two Humans With Severe Thoracic Spinal Cord Injury. Frontiers in Systems Neuroscience, 2020, 14, 79.	2.5	20
35	Iron †ElectriRx' man: Overground stepping in an exoskeleton combined with noninvasive spinal cord stimulation after paralysis. , 2015, 2015, 1124-7.		16
36	Cardiovascular Response of Individuals With Spinal Cord Injury to Dynamic Functional Electrical Stimulation Under Orthostatic Stress. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2013, 21, 37-46.	4.9	15

DIMITRY G SAYENKO

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37	Respiratory motor training and neuromuscular plasticity in patients with chronic obstructive pulmonary disease: A pilot study. Respiratory Physiology and Neurobiology, 2016, 229, 59-64.	1.6	15
38	Effect of whole-body vibration on lower-limb EMG activity in subjects with and without spinal cord injury. Journal of Spinal Cord Medicine, 2014, 37, 525-536.	1.4	14
39	Alterations of Spinal Epidural Stimulation-Enabled Stepping by Descending Intentional Motor Commands and Proprioceptive Inputs in Humans With Spinal Cord Injury. Frontiers in Systems Neuroscience, 2020, 14, 590231.	2.5	14
40	Muscle activity, cross-sectional area, and density following passive standing and whole body vibration: A case series. Journal of Spinal Cord Medicine, 2014, 37, 575-581.	1.4	13
41	Respiratory motor function in seated and supine positions in individuals with chronic spinal cord injury. Respiratory Physiology and Neurobiology, 2014, 203, 9-14.	1.6	13
42	Voluntary Modulation of Evoked Responses Generated by Epidural and Transcutaneous Spinal Stimulation in Humans with Spinal Cord Injury. Journal of Clinical Medicine, 2021, 10, 4898.	2.4	13
43	Facilitation of the soleus stretch reflex induced by electrical excitation of plantar cutaneous afferents located around the heel. Neuroscience Letters, 2007, 415, 294-298.	2.1	12
44	Motor Control After Human SCI Through Activation of Muscle Synergies Under Spinal Cord Stimulation. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2019, 27, 1331-1340.	4.9	12
45	Transcutaneous spinal cord stimulation improves postural stability in individuals with multiple sclerosis and Related Disorders, 2021, 52, 103009.	2.0	12
46	Vestibulospinal and Corticospinal Modulation of Lumbosacral Network Excitability in Human Subjects. Frontiers in Physiology, 2018, 9, 1746.	2.8	11
47	Video game-based neuromuscular electrical stimulation system for calf muscle training: A case study. Medical Engineering and Physics, 2011, 33, 249-255.	1.7	10
48	Minimal handgrip force is needed for transcutaneous electrical stimulation to improve hand functions of patients with severe spinal cord injury. Scientific Reports, 2022, 12, 7733.	3.3	10
49	Co-contraction of antagonist muscles during knee extension against gravity: Insights for functional electrical stimulation control design. , 2012, 2012, 1843-6.		9
50	Acute effects of Dry Immersion on kinematic characteristics of postural corrective responses. Acta Astronautica, 2016, 121, 110-115.	3.2	9
51	Low-Intensity and Short-Duration Continuous Cervical Transcutaneous Spinal Cord Stimulation Intervention Does Not Prime the Corticospinal and Spinal Reflex Pathways in Able-Bodied Subjects. Journal of Clinical Medicine, 2021, 10, 3633.	2.4	9
52	Characterization of Spinal Sensorimotor Network Using Transcutaneous Spinal Stimulation during Voluntary Movement Preparation and Performance. Journal of Clinical Medicine, 2021, 10, 5958.	2.4	8
53	Action Possibility Judgments of People with Varying Motor Abilities Due to Spinal Cord Injury. PLoS ONE, 2014, 9, e110250.	2.5	7
54	Spatially distributed sequential stimulation reduces muscle fatigue during neuromuscular electrical stimulation. , 2013, 2013, 3614-7.		6

DIMITRY G SAYENKO

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55	Selective Antagonism of A1 Adenosinergic Receptors Strengthens the Neuromodulation of the Sensorimotor Network During Epidural Spinal Stimulation. Frontiers in Systems Neuroscience, 2020, 14, 44.	2.5	6
56	Effect of spinal cord injury and its lesion level on stretch reflex modulation by cold stimulation in humans. Clinical Neurophysiology, 2011, 122, 163-170.	1.5	4
57	Transcutaneous spinal stimulation alters cortical and subcortical activation patterns during mimicked-standing: A proof-of-concept fMRI study. NeuroImage Reports, 2022, 2, 100090.	1.0	4
58	Effects of transcutaneous spinal stimulation on spatiotemporal cortical activation patterns: a proof-of-concept EEG study. Journal of Neural Engineering, 2022, 19, 046001.	3.5	4
59	Quantitative Assessment of Clinician Assistance During Dynamic Rehabilitation Using Force Sensitive Resistors. Frontiers in Rehabilitation Sciences, 2021, 2, .	1.2	3
60	Characterization of interlimb interaction via transcutaneous spinal stimulation of cervical and lumbar spinal enlargements. Journal of Neurophysiology, 2022, 127, 1075-1085.	1.8	2
61	Neuromodulation and restoration of motor responses after severe spinal cord injury. , 2022, , 51-63.		2
62	On Muscle Activation for Improving Robotic Rehabilitation after Spinal Cord Injury. , 2018, , .		1
63	Potential impact of epidural stimulation on neurogenic bladder function and the value of urodynamic studies throughout usage. Journal of Spinal Cord Medicine, 2021, 44, 515-516.	1.4	0