

# Yury Gerasimenko

## List of Publications by Year in descending order

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Version: 2024-02-01

46  
papers

3,839  
citations

201674

27  
h-index

302126

39  
g-index

46  
all docs

46  
docs citations

46  
times ranked

2066  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of epidural stimulation of the lumbosacral spinal cord on voluntary movement, standing, and assisted stepping after motor complete paraplegia: a case study. <i>Lancet, The</i> , 2011, 377, 1938-1947.	13.7	964
2	Transformation of nonfunctional spinal circuits into functional states after the loss of brain input. <i>Nature Neuroscience</i> , 2009, 12, 1333-1342.	14.8	620
3	Transcutaneous electrical spinal-cord stimulation in humans. <i>Annals of Physical and Rehabilitation Medicine</i> , 2015, 58, 225-231.	2.3	176
4	Epidural stimulation: Comparison of the spinal circuits that generate and control locomotion in rats, cats and humans. <i>Experimental Neurology</i> , 2008, 209, 417-425.	4.1	162
5	Epidural Stimulation Induced Modulation of Spinal Locomotor Networks in Adult Spinal Rats. <i>Journal of Neuroscience</i> , 2008, 28, 6022-6029.	3.6	147
6	Non-Invasive Activation of Cervical Spinal Networks after Severe Paralysis. <i>Journal of Neurotrauma</i> , 2018, 35, 2145-2158.	3.4	138
7	Controlling Specific Locomotor Behaviors through Multidimensional Monoaminergic Modulation of Spinal Circuitries. <i>Journal of Neuroscience</i> , 2011, 31, 9264-9278.	3.6	132
8	Weight Bearing Over-ground Stepping in an Exoskeleton with Non-invasive Spinal Cord Neuromodulation after Motor Complete Paraplegia. <i>Frontiers in Neuroscience</i> , 2017, 11, 333.	2.8	131
9	Engaging Cervical Spinal Cord Networks to Reenable Volitional Control of Hand Function in Tetraplegic Patients. <i>Neurorehabilitation and Neural Repair</i> , 2016, 30, 951-962.	2.9	123
10	Initiation and modulation of locomotor circuitry output with multisite transcutaneous electrical stimulation of the spinal cord in noninjured humans. <i>Journal of Neurophysiology</i> , 2015, 113, 834-842.	1.8	120
11	Novel and Direct Access to the Human Locomotor Spinal Circuitry. <i>Journal of Neuroscience</i> , 2010, 30, 3700-3708.	3.6	108
12	Use of quadrupedal step training to re-engage spinal interneuronal networks and improve locomotor function after spinal cord injury. <i>Brain</i> , 2013, 136, 3362-3377.	7.6	79
13	Variability in step training enhances locomotor recovery after a spinal cord injury. <i>European Journal of Neuroscience</i> , 2012, 36, 2054-2062.	2.6	76
14	Somatosensory control of balance during locomotion in decerebrated cat. <i>Journal of Neurophysiology</i> , 2012, 107, 2072-2082.	1.8	70
15	An Autonomic Neuroprosthesis: Noninvasive Electrical Spinal Cord Stimulation Restores Autonomic Cardiovascular Function in Individuals with Spinal Cord Injury. <i>Journal of Neurotrauma</i> , 2018, 35, 446-451.	3.4	70
16	Recovery of control of posture and locomotion after a spinal cord injury: solutions staring us in the face. <i>Progress in Brain Research</i> , 2009, 175, 393-418.	1.4	66
17	Electrical neuromodulation of the cervical spinal cord facilitates forelimb skilled function recovery in spinal cord injured rats. <i>Experimental Neurology</i> , 2017, 291, 141-150.	4.1	63
18	Engaging cervical spinal circuitry with non-invasive spinal stimulation and buspirone to restore hand function in chronic motor complete patients. <i>Scientific Reports</i> , 2018, 8, 15546.	3.3	63

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19	Sub-threshold spinal cord stimulation facilitates spontaneous motor activity in spinal rats. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2013, 10, 108.	4.6	60
20	Propriospinal Bypass of the Serotonergic System That Can Facilitate Stepping. <i>Journal of Neuroscience</i> , 2009, 29, 5681-5689.	3.6	45
21	Activation of spinal locomotor circuits in the decerebrated cat by spinal epidural and/or intraspinal electrical stimulation. <i>Brain Research</i> , 2015, 1600, 84-92.	2.2	45
22	Integration of sensory, spinal, and volitional descending inputs in regulation of human locomotion. <i>Journal of Neurophysiology</i> , 2016, 116, 98-105.	1.8	44
23	Unique Spatiotemporal Neuromodulation of the Lumbosacral Circuitry Shapes Locomotor Success after Spinal Cord Injury. <i>Journal of Neurotrauma</i> , 2016, 33, 1709-1723.	3.4	40
24	Neuromodulation of motor-evoked potentials during stepping in spinal rats. <i>Journal of Neurophysiology</i> , 2013, 110, 1311-1322.	1.8	39
25	Evaluation of optimal electrode configurations for epidural spinal cord stimulation in cervical spinal cord injured rats. <i>Journal of Neuroscience Methods</i> , 2015, 247, 50-57.	2.5	35
26	Feed-Forwardness of Spinal Networks in Posture and Locomotion. <i>Neuroscientist</i> , 2017, 23, 441-453.	3.5	33
27	Distribution of Spinal Neuronal Networks Controlling Forward and Backward Locomotion. <i>Journal of Neuroscience</i> , 2018, 38, 4695-4707.	3.6	31
28	Noninvasive spinal stimulation safely enables upright posture in children with spinal cord injury. <i>Nature Communications</i> , 2021, 12, 5850.	12.8	24
29	Electrophysiological biomarkers of neuromodulatory strategies to recover motor function after spinal cord injury. <i>Journal of Neurophysiology</i> , 2015, 113, 3386-3396.	1.8	22
30	Electrical Spinal Stimulation, and Imagining of Lower Limb Movements to Modulate Brain-Spinal Connectomes That Control Locomotor-Like Behavior. <i>Frontiers in Physiology</i> , 2018, 9, 1196.	2.8	21
31	Cervical Electrical Neuromodulation Effectively Enhances Hand Motor Output in Healthy Subjects by Engaging a Use-Dependent Intervention. <i>Journal of Clinical Medicine</i> , 2021, 10, 195.	2.4	16
32	Transcutaneous Electrical Neuromodulation of the Cervical Spinal Cord Depends Both on the Stimulation Intensity and the Degree of Voluntary Activity for Training. A Pilot Study. <i>Journal of Clinical Medicine</i> , 2021, 10, 3278.	2.4	14
33	Rostral lumbar segments are the key controllers of hindlimb locomotor rhythmicity in the adult spinal rat. <i>Journal of Neurophysiology</i> , 2019, 122, 585-600.	1.8	13
34	Novel Non-invasive Strategy for Spinal Neuromodulation to Control Human Locomotion. <i>Frontiers in Human Neuroscience</i> , 2020, 14, 622533.	2.0	9
35	Epidural Spinal Cord Stimulation Improves Motor Function in Rats With Chemically Induced Parkinsonism. <i>Neurorehabilitation and Neural Repair</i> , 2019, 33, 1029-1039.	2.9	8
36	Multi-site spinal stimulation strategies to enhance locomotion after paralysis. <i>Neural Regeneration Research</i> , 2016, 11, 1926.	3.0	8

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37	Tetraplegia to Overground Stepping Using Non-Invasive Spinal Neuromodulation. , 2019, , .		7
38	Reply: No dawn yet of a new age in spinal cord rehabilitation. Brain, 2015, 138, e363-e363.	7.6	6
39	Electrophysiological mapping of rat sensorimotor lumbosacral spinal networks after complete paralysisâ†. Progress in Brain Research, 2015, 218, 199-212.	1.4	4
40	Serotonergic Facilitation of Forelimb Functional Recovery in Rats with Cervical Spinal Cord Injury. Neurotherapeutics, 2021, 18, 1226-1243.	4.4	4
41	Using in vivo spinally-evoked potentials to assess functional connectivity along the spinal axis. , 2013, , .		3
42	Using Forelimb EMG to Control an Electronic Spinal Bridge to Facilitate Hindlimb Stepping After Complete Spinal Cord Lesion. , 2011, , .		0
43	Epidural Stimulation. , 2013, , 1-3.		0
44	Enhanced spontaneous cage activity induced by continuous low intensity spinal cord epidural stimulation in complete spinal cord transected adult rats. FASEB Journal, 2013, 27, 1132.29.	0.5	0
45	Effects of Electrical Spinal Cord Stimulation on the Activity of the Hypothalamicâ€Pituitaryâ€Adrenocortical System and the Sensitivity of the Gastric Mucosa to Ulcerogenic Stimuli. FASEB Journal, 2022, 36, .	0.5	0
46	Epidural Stimulation. , 2022, , 1322-1325.		0