

Karen Minassian

List of Publications by Year in descending order

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Version: 2024-02-01

43
papers

3,160
citations

279798

23
h-index

454955

30
g-index

44
all docs

44
docs citations

44
times ranked

1910
citing authors

#	ARTICLE	IF	CITATIONS
1	Targeted neurotechnology restores walking in humans with spinal cord injury. <i>Nature</i> , 2018, 563, 65-71.	27.8	708
2	Electrical spinal cord stimulation must preserve proprioception to enable locomotion in humans with spinal cord injury. <i>Nature Neuroscience</i> , 2018, 21, 1728-1741.	14.8	247
3	Posterior root muscle reflexes elicited by transcutaneous stimulation of the human lumbosacral cord. <i>Muscle and Nerve</i> , 2007, 35, 327-336.	2.2	204
4	Stimulation of the Human Lumbar Spinal Cord With Implanted and Surface Electrodes: A Computer Simulation Study. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2010, 18, 637-645.	4.9	183
5	Activity-dependent spinal cord neuromodulation rapidly restores trunk and leg motor functions after complete paralysis. <i>Nature Medicine</i> , 2022, 28, 260-271.	30.7	174
6	Common neural structures activated by epidural and transcutaneous lumbar spinal cord stimulation: Elicitation of posterior root-muscle reflexes. <i>PLoS ONE</i> , 2018, 13, e0192013.	2.5	150
7	Modification of spasticity by transcutaneous spinal cord stimulation in individuals with incomplete spinal cord injury. <i>Journal of Spinal Cord Medicine</i> , 2014, 37, 202-211.	1.4	142
8	Human spinal locomotor control is based on flexibly organized burst generators. <i>Brain</i> , 2015, 138, 577-588.	7.6	139
9	Can the Human Lumbar Posterior Columns Be Stimulated by Transcutaneous Spinal Cord Stimulation? A Modeling Study. <i>Artificial Organs</i> , 2011, 35, 257-262.	1.9	134
10	The Human Central Pattern Generator for Locomotion: Does It Exist and Contribute to Walking?. <i>Neuroscientist</i> , 2017, 23, 649-663.	3.5	130
11	Augmentation of Voluntary Locomotor Activity by Transcutaneous Spinal Cord Stimulation in Motor Incomplete Spinal Cord Injured Individuals. <i>Artificial Organs</i> , 2015, 39, E176-86.	1.9	112
12	Spinal Rhythm Generation by Step-Induced Feedback and Transcutaneous Posterior Root Stimulation in Complete Spinal Cord Injured Individuals. <i>Neurorehabilitation and Neural Repair</i> , 2016, 30, 233-243.	2.9	98
13	Transcutaneous Spinal Cord Stimulation Induces Temporary Attenuation of Spasticity in Individuals with Spinal Cord Injury. <i>Journal of Neurotrauma</i> , 2020, 37, 481-493.	3.4	87
14	Neuromodulation of lower limb motor control in restorative neurology. <i>Clinical Neurology and Neurosurgery</i> , 2012, 114, 489-497.	1.4	74
15	Targeting Lumbar Spinal Neural Circuitry by Epidural Stimulation to Restore Motor Function After Spinal Cord Injury. <i>Neurotherapeutics</i> , 2016, 13, 284-294.	4.4	66
16	Periodic modulation of repetitively elicited monosynaptic reflexes of the human lumbosacral spinal cord. <i>Journal of Neurophysiology</i> , 2015, 114, 400-410.	1.8	65
17	Modification of Reflex Responses to Lumbar Posterior Root Stimulation by Motor Tasks in Healthy Subjects. <i>Artificial Organs</i> , 2008, 32, 644-648.	1.9	64
18	Body Position Influences Which Neural Structures Are Recruited by Lumbar Transcutaneous Spinal Cord Stimulation. <i>PLoS ONE</i> , 2016, 11, e0147479.	2.5	64

#	ARTICLE	IF	CITATIONS
19	Spinal Cord Stimulation and Augmentative Control Strategies for Leg Movement after Spinal Paralysis in Humans. <i>CNS Neuroscience and Therapeutics</i> , 2016, 22, 262-270.	3.9	53
20	Spinal cord stimulation. <i>Handbook of Clinical Neurology</i> / Edited By P J Vinken and G W Bruyn, 2012, 109, 283-296.	1.8	50
21	Recovery cycles of posterior root-muscle reflexes evoked by transcutaneous spinal cord stimulation and of the H reflex in individuals with intact and injured spinal cord. <i>PLoS ONE</i> , 2019, 14, e0227057.	2.5	48
22	Frequency-dependent selection of alternative spinal pathways with common periodic sensory input. <i>Biological Cybernetics</i> , 2004, 91, 359-376.	1.3	33
23	Probing the Human Spinal Locomotor Circuits by Phasic Step-Induced Feedback and by Tonic Electrical and Pharmacological Neuromodulation. <i>Current Pharmaceutical Design</i> , 2017, 23, 1805-1820.	1.9	31
24	Multi-Electrode Array for Transcutaneous Lumbar Posterior Root Stimulation. <i>Artificial Organs</i> , 2015, 39, 834-840.	1.9	25
25	Spinal motor mapping by epidural stimulation of lumbosacral posterior roots in humans. <i>IScience</i> , 2021, 24, 101930.	4.1	23
26	Transcutaneous Lumbar Posterior Root Stimulation for Motor Control Studies and Modification of Motor Activity after Spinal Cord Injury. , 2011, , 226-255.		21
27	Influence of Spine Curvature on the Efficacy of Transcutaneous Lumbar Spinal Cord Stimulation. <i>Journal of Clinical Medicine</i> , 2021, 10, 5543.	2.4	7
28	Ipsi- and Contralateral Oligo- and Polysynaptic Reflexes in Humans Revealed by Low-Frequency Epidural Electrical Stimulation of the Lumbar Spinal Cord. <i>Brain Sciences</i> , 2021, 11, 112.	2.3	5
29	Transcutaneous Spinal Cord Stimulation: Advances in an Emerging Non-Invasive Strategy for Neuromodulation. <i>Journal of Clinical Medicine</i> , 2022, 11, 3836.	2.4	5
30	Finite Element Models of Transcutaneous Spinal Cord Stimulation. , 2014, , 1-6.		4
31	Finite Element Modeling for Extracellular Stimulation. , 2014, , 1-12.		3
32	Locomotor rhythm and pattern generating networks of the human lumbar spinal cord: an electrophysiological and computer modeling study. <i>BMC Neuroscience</i> , 2013, 14, .	1.9	2
33	Spinal Cord Stimulation as a Neuromodulatory Intervention for Altered Motor Control Following Spinal Cord Injury. <i>Biosystems and Biorobotics</i> , 2018, , 501-521.	0.3	2
34	The posterior root-muscle reflex. , 2020, , 239-253.		2
35	Finite Element Modeling for Extracellular Stimulation. , 2013, , 1-12.		2
36	Epidural and Transcutaneous Spinal Cord Stimulation Strategies for Motor Recovery After Spinal Cord Injury. , 2021, , 167-190.		1

#	ARTICLE	IF	CITATIONS
37	Paraspinal Magnetic and Transcutaneous Electrical Stimulation. , 2014, , 1-21.		1
38	Paraspinal Magnetic and Transcutaneous Electrical Stimulation. , 2014, , 1-21.		1
39	Non-invasive transcutaneous stimulation of the human lumbar spinal cord facilitates locomotor output in spinal cord injury. Biomedizinische Technik, 2012, 57, .	0.8	0
40	Paraspinal Magnetic and Transcutaneous Electrical Stimulation. , 2013, , 1-20.		0
41	Finite Element Models of Transcutaneous Spinal Cord Stimulation. , 2022, , 1434-1439.		0
42	Finite Element Modeling for Extracellular Stimulation. , 2022, , 1423-1432.		0
43	Paraspinal Magnetic and Transcutaneous Electrical Stimulation. , 2022, , 2581-2599.		0