

Matija Milosevic

List of Publications by Year in descending order

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Version: 2024-02-01

45
papers

631
citations

623734

14
h-index

713466

21
g-index

51
all docs

51
docs citations

51
times ranked

688
citing authors

#	ARTICLE	IF	CITATIONS
1	Evidence That Brain-Controlled Functional Electrical Stimulation Could Elicit Targeted Corticospinal Facilitation of Hand Muscles in Healthy Young Adults. <i>Neuromodulation</i> , 2023, 26, 1612-1621.	0.8	7
2	Corticospinal excitability and somatosensory information processing of the lower limb muscle during upper limb voluntary or electrically induced muscle contractions. <i>European Journal of Neuroscience</i> , 2022, 55, 1810-1824.	2.6	2
3	Short-term facilitation effects elicited by cortical priming through theta burst stimulation and functional electrical stimulation of upper-limb muscles. <i>Experimental Brain Research</i> , 2022, , 1.	1.5	2
4	Preferential activation of proprioceptive and cutaneous sensory fibers compared to motor fibers during cervical transcutaneous spinal cord stimulation: A computational study. <i>Journal of Neural Engineering</i> , 2022, , .	3.5	11
5	Development and Validation of a Closed-Loop Functional Electrical Stimulation-Based Controller for Gait Rehabilitation Using a Finite State Machine Model. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2022, 30, 1642-1651.	4.9	1
6	The International Functional Electrical Stimulation Society (<scp>IFESS</scp>): Current and future developments. <i>Artificial Organs</i> , 2022, 46, 1968-1969.	1.9	0
7	Contribution of Each Motor Point of Quadriceps Femoris to Knee Extension Torque During Neuromuscular Electrical Stimulation. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2021, 29, 389-396.	4.9	6
8	Long-Lasting Event-Related Beta Synchronizations of Electroencephalographic Activity in Response to Support-Surface Perturbations During Upright Stance: A Pilot Study Associating Beta Rebound and Active Monitoring in the Intermittent Postural Control. <i>Frontiers in Systems Neuroscience</i> , 2021, 15, 660434.	2.5	3
9	Muscle-specific movement-phase-dependent modulation of corticospinal excitability during upper-limb motor execution and motor imagery combined with virtual action observation. <i>Neuroscience Letters</i> , 2021, 755, 135907.	2.1	11
10	Selectivity and excitability of upper-limb muscle activation during cervical transcutaneous spinal cord stimulation in humans. <i>Journal of Applied Physiology</i> , 2021, 131, 746-759.	2.5	23
11	Cortical Re-organization After Traumatic Brain Injury Elicited Using Functional Electrical Stimulation Therapy: A Case Report. <i>Frontiers in Neuroscience</i> , 2021, 15, 693861.	2.8	13
12	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. <i>Journal of Clinical Medicine</i> , 2021, 10, 3633.	2.4	9
13	Task- and Intensity-Dependent Modulation of Arm-Trunk Neural Interactions in the Corticospinal Pathway in Humans. <i>ENeuro</i> , 2021, 8, ENEURO.0111-21.2021.	1.9	4
14	Force Control of Ankle Dorsiflexors in Young Adults: Effects of Bilateral Control and Leg Dominance. <i>Journal of Motor Behavior</i> , 2020, 52, 226-235.	0.9	8
15	Cortical and Subcortical Neural Interactions Between Trunk and Upper-limb Muscles in Humans. <i>Neuroscience</i> , 2020, 451, 126-136.	2.3	5
16	Interlimb neural interactions in corticospinal and spinal reflex circuits during preparation and execution of isometric elbow flexion. <i>Journal of Neurophysiology</i> , 2020, 124, 652-667.	1.8	9
17	Postural instability via a loss of intermittent control in elderly and patients with Parkinsonâ€™s disease: A model-based and data-driven approach. <i>Chaos</i> , 2020, 30, 113140.	2.5	24
18	Why brain-controlled neuroprosthetics matter: mechanisms underlying electrical stimulation of muscles and nerves in rehabilitation. <i>BioMedical Engineering OnLine</i> , 2020, 19, 81.	2.7	31

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19	Changes in corticospinal excitability during bilateral and unilateral lower-limb force control tasks. <i>Experimental Brain Research</i> , 2020, 238, 1977-1987.	1.5	4
20	Contractile properties of superficial skeletal muscle affect postural control in healthy young adults: A test of the rambling and trembling hypothesis. <i>PLoS ONE</i> , 2019, 14, e0223850.	2.5	14
21	Effects of neuromuscular electrical stimulation and voluntary commands on the spinal reflex excitability of remote limb muscles. <i>Experimental Brain Research</i> , 2019, 237, 3195-3205.	1.5	18
22	On the reflex mechanisms of cervical transcutaneous spinal cord stimulation in human subjects. <i>Journal of Neurophysiology</i> , 2019, 121, 1672-1679.	1.8	39
23	Short-term inhibition of spinal reflexes in multiple lower limb muscles after neuromuscular electrical stimulation of ankle plantar flexors. <i>Experimental Brain Research</i> , 2019, 237, 467-476.	1.5	20
24	Relationship Between Posturography, Clinical Balance and Executive Function in Parkinson's Disease. <i>Journal of Motor Behavior</i> , 2019, 51, 212-221.	0.9	20
25	Evidence for existence of trunk-limb neural interaction in the corticospinal pathway. <i>Neuroscience Letters</i> , 2018, 668, 31-36.	2.1	15
26	Short-term effects of electrical nerve stimulation on spinal reciprocal inhibition depend on gait phase during passive stepping. <i>Journal of Electromyography and Kinesiology</i> , 2018, 38, 151-154.	1.7	7
27	Effects of spinal cord stimulation on postural control in Parkinson's disease patients with freezing of gait. <i>ELife</i> , 2018, 7, .	6.0	38
28	Lateral hypothalamic activity indicates hunger and satiety states in humans. <i>Annals of Clinical and Translational Neurology</i> , 2017, 4, 897-901.	3.7	19
29	Postural regulatory strategies during quiet sitting are affected in individuals with thoracic spinal cord injury. <i>Gait and Posture</i> , 2017, 58, 446-452.	1.4	21
30	Wheelchair Neuroprosthesis for Improving Dynamic Trunk Stability. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2017, 25, 2472-2479.	4.9	8
31	Muscle synergies reveal impaired trunk muscle coordination strategies in individuals with thoracic spinal cord injury. <i>Journal of Electromyography and Kinesiology</i> , 2017, 36, 40-48.	1.7	44
32	Anticipation of direction and time of perturbation modulates the onset latency of trunk muscle responses during sitting perturbations. <i>Journal of Electromyography and Kinesiology</i> , 2016, 26, 94-101.	1.7	13
33	Trunk muscle co-activation using functional electrical stimulation modifies center of pressure fluctuations during quiet sitting by increasing trunk stiffness. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2015, 12, 99.	4.6	12
34	Trunk control impairment is responsible for postural instability during quiet sitting in individuals with cervical spinal cord injury. <i>Clinical Biomechanics</i> , 2015, 30, 507-512.	1.2	53
35	Active video game head movement inputs. <i>Personal and Ubiquitous Computing</i> , 2014, 18, 253-257.	2.8	5
36	Spinal cord stimulation for gait impairment in spinocerebellar ataxia 7. <i>Journal of Neurology</i> , 2014, 261, 570-574.	3.6	4

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37	Arm movement effect on balance. , 2012, 2012, 4549-52.		5
38	Evaluation of Protective Gloves and Working Techniques for Reducing Handâ€arm Vibration Exposure in the Workplace. Journal of Occupational Health, 2012, 54, 250-253.	2.1	8
39	Visualization of Trunk Muscle Synergies During Sitting Perturbations Using Self-Organizing Maps (SOM). IEEE Transactions on Biomedical Engineering, 2012, 59, 2516-2523.	4.2	24
40	Arm movement improves performance in clinical balance and mobility tests. Gait and Posture, 2011, 33, 507-509.	1.4	28
41	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
42	Audio-visual biofeedback system for postural control. International Journal on Disability and Human Development, 2011, 10, .	0.2	4
43	Measurement of Vibrations and Evaluation of Protective Gloves for Work with Hand-held Power Tools in Industrial Settings. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 2281-4.	0.5	5
44	Head Movement Effects in a Cost-Effective Virtual Reality Training Environment for Balance Rehabilitation. , 2007, , .		1
45	Optimizing sensory fiber activation during cervical transcutaneous spinal stimulation using different electrode configurations: A computational analysis. Artificial Organs, 0, , .	1.9	0