

Makii Muthalib

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

1,851
citations

257450

24
h-index

276875

41
g-index

54
all docs

54
docs citations

54
times ranked

2688
citing authors

#	ARTICLE	IF	CITATIONS
1	The use of near-infrared spectroscopy in understanding skeletal muscle physiology: recent developments. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2011, 369, 4577-4590.	3.4	311
2	Does a Combination of Virtual Reality, Neuromodulation and Neuroimaging Provide a Comprehensive Platform for Neurorehabilitation? â€“ A Narrative Review of the Literature. <i>Frontiers in Human Neuroscience</i> , 2016, 10, 284.	2.0	119
3	Effective Connectivity of Cortical Sensorimotor Networks During Finger Movement Tasks: A Simultaneous fNIRS, fMRI, EEG Study. <i>Brain Topography</i> , 2016, 29, 645-660.	1.8	94
4	A semi-immersive virtual reality incremental swing balance task activates prefrontal cortex: A functional near-infrared spectroscopy study. <i>NeuroImage</i> , 2014, 85, 451-460.	4.2	91
5	Severe hypoxia affects exercise performance independently of afferent feedback and peripheral fatigue. <i>Journal of Applied Physiology</i> , 2012, 112, 1335-1344.	2.5	71
6	Measuring prefrontal cortical activity during dual task walking in patients with Parkinsonâ€™s disease: feasibility of using a new portable fNIRS device. <i>Pilot and Feasibility Studies</i> , 2016, 2, 59.	1.2	63
7	Using non-invasive transcranial stimulation to improve motor and cognitive function in Parkinsonâ€™s disease: a systematic review and meta-analysis. <i>Scientific Reports</i> , 2017, 7, 14840.	3.3	56
8	Effects of Transcranial Direct Current Stimulation of the Motor Cortex on Prefrontal Cortex Activation During a Neuromuscular Fatigue Task: An fNIRS Study. <i>Advances in Experimental Medicine and Biology</i> , 2013, 789, 73-79.	1.6	53
9	Reliability of near-infrared spectroscopy for measuring biceps brachii oxygenation during sustained and repeated isometric contractions. <i>Journal of Biomedical Optics</i> , 2010, 15, 017008.	2.6	51
10	Systemic inflammatory responses to maximal versus submaximal lengthening contractions of the elbow flexors. <i>Exercise Immunology Review</i> , 2006, 12, 72-85.	0.4	51
11	Music improves verbal memory encoding while decreasing prefrontal cortex activity: an fNIRS study. <i>Frontiers in Microbiology</i> , 2013, 7, 779.	3.5	49
12	Less Effort, Better Results: How Does Music Act on Prefrontal Cortex in Older Adults during Verbal Encoding? An fNIRS Study. <i>Frontiers in Human Neuroscience</i> , 2014, 8, 301.	2.0	49
13	Attenuation of muscle damage by preconditioning with muscle hyperthermia 1-day prior to eccentric exercise. <i>European Journal of Applied Physiology</i> , 2006, 99, 183-192.	2.5	48
14	Visual Analog Scale and Pressure Pain Threshold for Delayed Onset Muscle Soreness Assessment. <i>Journal of Musculoskeletal Pain</i> , 2013, 21, 320-326.	0.3	47
15	Exergaming as a Viable Therapeutic Tool to Improve Static and Dynamic Balance among Older Adults and People with Idiopathic Parkinsonâ€™s Disease: A Systematic Review and Meta-Analysis. <i>Frontiers in Aging Neuroscience</i> , 2015, 7, 167.	3.4	45
16	NIRS-EEG joint imaging during transcranial direct current stimulation: Online parameter estimation with an autoregressive model. <i>Journal of Neuroscience Methods</i> , 2016, 274, 71-80.	2.5	41
17	The effects of a repeated bout of eccentric exercise on indices of muscle damage and delayed onset muscle soreness. <i>Journal of Science and Medicine in Sport</i> , 2000, 3, 35-43.	1.3	39
18	Focal Hemodynamic Responses in the Stimulated Hemisphere During High-Definition Transcranial Direct Current Stimulation. <i>Neuromodulation</i> , 2018, 21, 348-354.	0.8	39

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19	Comparison in muscle damage between maximal voluntary and electrically evoked isometric contractions of the elbow flexors. <i>European Journal of Applied Physiology</i> , 2012, 112, 429-438.	2.5	35
20	Multimodal integration of fNIRS, fMRI and EEG neuroimaging. <i>Clinical Neurophysiology</i> , 2013, 124, 2060-2062.	1.5	35
21	Effects of Increasing Neuromuscular Electrical Stimulation Current Intensity on Cortical Sensorimotor Network Activation: A Time Domain fNIRS Study. <i>PLoS ONE</i> , 2015, 10, e0131951.	2.5	33
22	Effects of cold water immersion and active recovery on hemodynamics and recovery of muscle strength following resistance exercise. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2015, 309, R389-R398.	1.8	31
23	Effects of Anodal High-Definition Transcranial Direct Current Stimulation on Bilateral Sensorimotor Cortex Activation During Sequential Finger Movements: An fNIRS Study. <i>Advances in Experimental Medicine and Biology</i> , 2016, 876, 351-359.	1.6	31
24	Comparison between maximal lengthening and shortening contractions for biceps brachii muscle oxygenation and hemodynamics. <i>Journal of Applied Physiology</i> , 2010, 109, 710-720.	2.5	29
25	Biceps brachii muscle oxygenation in electrical muscle stimulation. <i>Clinical Physiology and Functional Imaging</i> , 2010, 30, 360-368.	1.2	27
26	The repeated-bout effect: influence on biceps brachii oxygenation and myoelectrical activity. <i>Journal of Applied Physiology</i> , 2011, 110, 1390-1399.	2.5	23
27	Comparison of causality analysis on simultaneously measured fMRI and NIRS signals during motor tasks. , 2013, 2013, 2628-31.		23
28	Sensory manipulation results in increased dorsolateral prefrontal cortex activation during static postural balance in sedentary older adults: An fNIRS study. <i>Brain and Behavior</i> , 2018, 8, e01109.	2.2	23
29	Concurrent anodal transcranial direct-current stimulation and motor task to influence sensorimotor cortex activation. <i>Brain Research</i> , 2019, 1710, 181-187.	2.2	23
30	Innovative STRoke Interactive Virtual thErapy (STRIVE) online platform for community-dwelling stroke survivors: a randomised controlled trial protocol. <i>BMJ Open</i> , 2018, 8, e018388.	1.9	21
31	An Innovative STRoke Interactive Virtual thErapy (STRIVE) Online Platform for Community-Dwelling Stroke Survivors: A Randomized Controlled Trial. <i>Archives of Physical Medicine and Rehabilitation</i> , 2020, 101, 1131-1137.	0.9	21
32	Lower Limb Progressive Resistance Training Improves Leg Strength but Not Gait Speed or Balance in Parkinson's Disease: A Systematic Review and Meta-Analysis. <i>Frontiers in Aging Neuroscience</i> , 2015, 7, 40.	3.4	20
33	Comparison between electrically evoked and voluntary isometric contractions for biceps brachii muscle oxidative metabolism using near-infrared spectroscopy. <i>European Journal of Applied Physiology</i> , 2009, 107, 235-241.	2.5	18
34	Effects of eccentric versus concentric contractions of the biceps brachii on intracortical inhibition and facilitation. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2019, 29, 369-379.	2.9	18
35	High-definition transcranial direct-current stimulation of the right M1 further facilitates left M1 excitability during crossed facilitation. <i>Journal of Neurophysiology</i> , 2018, 119, 1266-1272.	1.8	17
36	Concurrent exergaming and transcranial direct current stimulation to improve balance in people with Parkinson's disease: study protocol for a randomised controlled trial. <i>Trials</i> , 2018, 19, 387.	1.6	15

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37	Recovering arm function in chronic stroke patients using combined anodal HD-tDCS and virtual reality therapy (ReArm): a study protocol for a randomized controlled trial. <i>Trials</i> , 2021, 22, 747.	1.6	13
38	Muscle oxygenation of vastus lateralis and medialis muscles during alternating and pulsed current electrical stimulation. <i>European Journal of Applied Physiology</i> , 2011, 111, 779-787.	2.5	10
39	Grey-box modeling and hypothesis testing of functional near-infrared spectroscopy-based cerebrovascular reactivity to anodal high-definition tDCS in healthy humans. <i>PLoS Computational Biology</i> , 2021, 17, e1009386.	3.2	10
40	Local muscle metabolic demand induced by neuromuscular electrical stimulation and voluntary contractions at different force levels: a NIRS study. <i>European Journal of Translational Myology</i> , 2016, 26, 6058.	1.7	9
41	Concurrent transcranial direct current stimulation and progressive resistance training in Parkinson's disease: study protocol for a randomised controlled trial. <i>Trials</i> , 2016, 17, 326.	1.6	8
42	Cerebral Cortex Activation Mapping upon Electrical Muscle Stimulation by 32-Channel Time-Domain Functional Near-Infrared Spectroscopy. <i>Advances in Experimental Medicine and Biology</i> , 2013, 789, 441-447.	1.6	7
43	Functional near-infrared spectroscopy to probe sensorimotor region activation during electrical stimulation-evoked movement. <i>Clinical Physiology and Functional Imaging</i> , 2018, 38, 816-822.	1.2	7
44	Complex network analysis of resting-state fMRI of the brain. , 2016, 2016, 3598-3601.		6
45	Effects of Multiple Sessions of Cathodal Priming and Anodal HD-tDCS on Visuo Motor Task Plateau Learning and Retention. <i>Brain Sciences</i> , 2020, 10, 875.	2.3	6
46	Frontal Cortex Activation During Electrical Muscle Stimulation as Revealed by Functional Near-Infrared Spectroscopy. <i>Advances in Experimental Medicine and Biology</i> , 2012, 737, 45-49.	1.6	6
47	Changes in the number of circulating CD34+ cells after eccentric exercise of the elbow flexors in relation to muscle damage. <i>Journal of Sport and Health Science</i> , 2015, 4, 275-281.	6.5	2
48	Neurophysiological Correlates of tDCS-Induced Modulation of Cortical Sensorimotor Networks. , 2019, , 147-151.		2
49	Differences in hemispherical thalamo-cortical causality analysis during resting-state fMRI. , 2014, 2014, 990-3.		1
50	Commentary: Cumulative effects of anodal and priming cathodal tDCS on pegboard test performance and motor cortical excitability. <i>Frontiers in Human Neuroscience</i> , 2016, 10, 70.	2.0	1
51	Comparison of repeated transcranial stimulation and transcranial direct-current stimulation on primary motor cortex excitability and inhibition: A pilot study. <i>Movement and Sports Sciences - Science Et Motricite</i> , 2018, , 59-67.	0.3	1